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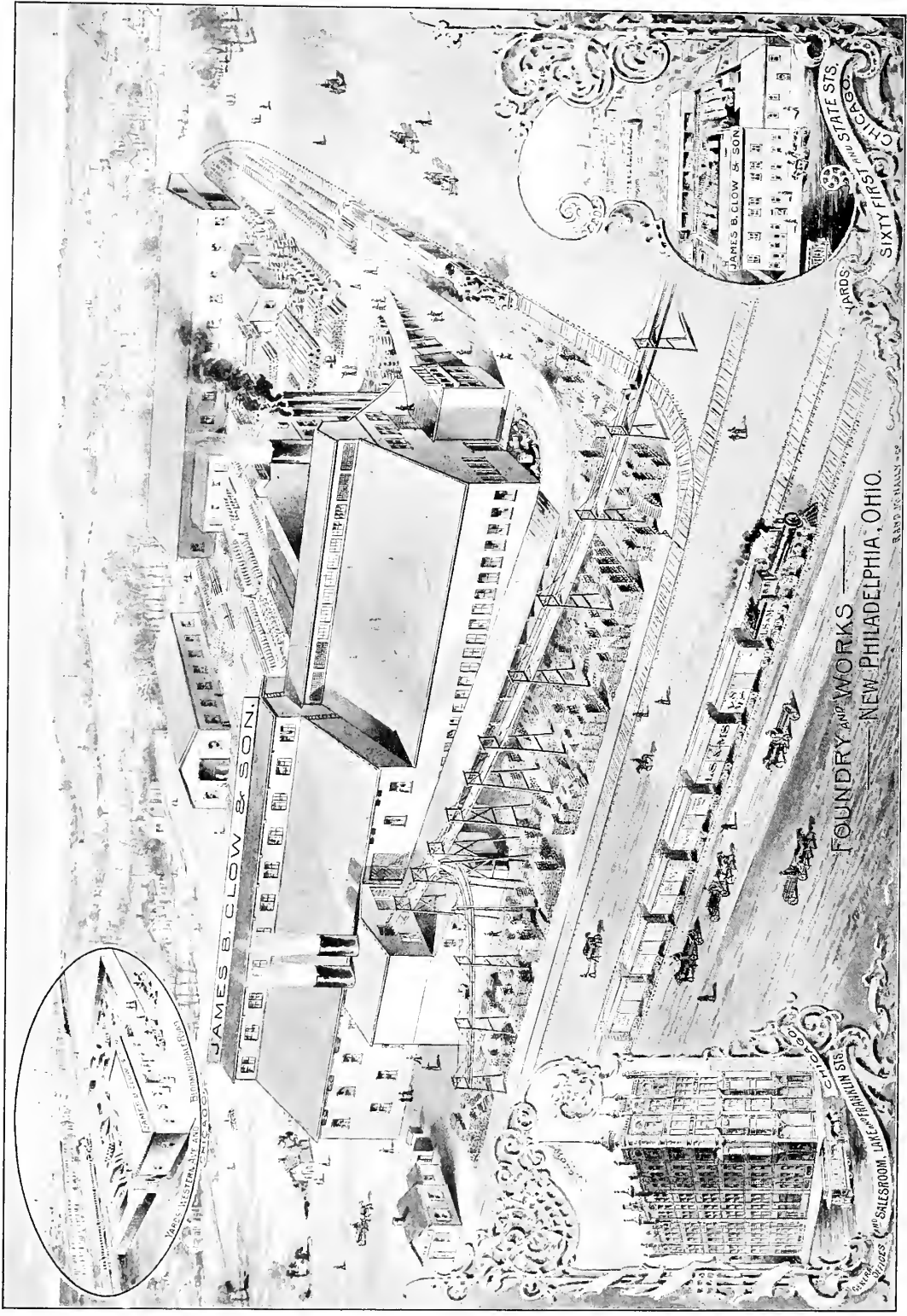
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1894

ILLUSTRATED CATALOGUE

OF

JAMES B. CLOW & SON

MANUFACTURERS OF AND DEALERS IN

SUPPLIES

FOR

PLUMBERS, STEAM AND GAS FITTERS, WATER AND GAS WORKS,
RAILROADS AND CONTRACTORS.



GAS, STEAM, AND WATER PIPE, PUMPS, FITTINGS, BRASS GOODS, 361
AND SANITARY SPECIALTIES.

FOUNDRIES AND PIPE WORKS,
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YARDS,
WESTERN AVENUE AND BLOOMINGDALE ROAD,
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FACTORY AND WAREHOUSE,
61ST, 62D, AND STATE STREETS,
CHICAGO.

GENERAL OFFICES AND SALESROOM,
LAKE AND FRANKLIN STREETS,
CHICAGO.

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Monthly Settlements Unless Otherwise Agreed Upon.

Bank remittances must be made with Chicago or New York Exchange.

All claims for corrections or deductions must be made within ten days after receipt of goods.

ALL GOODS, AFTER SHIPMENT, AT RISK OF PURCHASER. Our responsibility ceases when we obtain receipt from transportation company. Claims for breakage should be made on transportation company.

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Insurance will not be placed on shipments unless requested. All shipments will be made at "owner's risk" rates unless we are directed on each order to ship at "company risk."

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ERRORS.—We make them ; so does every one, and we will cheerfully correct them if you will write to us. Try to write us good-naturedly, but if you cannot, then write us any way. Do not let an error pass unnoticed, or complain to your friends or neighbors about it. We want an early opportunity to make right any mistakes that may occur.

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JAMES B. CLOW & SON.

Special.

We manufacture, or represent, as agents, manufacturers of every article used in the construction and maintenance of WATER WORKS PLANTS.

Bonds and Warrants.

We solicit correspondence from cities, towns, villages, or companies who wish to dispose of Bonds or Warrants for the purpose of building NEW or extending existing WATER WORKS PLANTS.

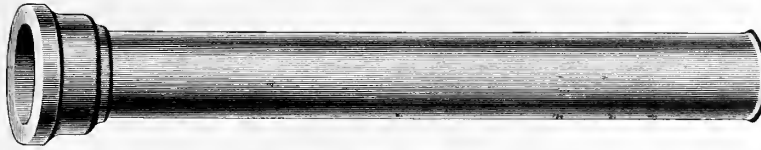
CAST-IRON PIPE.

FIG. 1.

CAST-IRON WATER PIPE.—Standard Weight.

SIZE INCHES	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48	60
THICKNESS . . . INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	2
WEIGHT PER FOOT POUNDS	17	22	33	42	60	75	117	125	167	197	250	350	475	600	775	1330

Weights given are standard, but can be changed when pipe is made to order. Coated inside and out and tested 300 lbs. per square inch, hydrostatic pressure. Above weight pipe carried in stock both at foundries and in Chicago.

CAST-IRON GAS PIPE.—Standard Weight.

SIZE INCHES	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48	60
THICKNESS . . . INCHES	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$
WEIGHT PER FOOT POUNDS	$12\frac{1}{2}$	18	30	40	55	70	85	104	134	150	190	277	350	383	600	916

Weights given are standard, but can be changed when pipe is made to order. Tested 250 lbs. hydrostatic pressure. Not coated. All sizes 12 feet long.

**TABLE OF LEAD AND HEMP REQUIRED TO PROPERLY CALK THE JOINTS
OF DIFFERENT SIZES OF CAST-IRON PIPE.**

SIZE INCHES	3	4	6	8	10	12	14	16	18	20	24	30	36
LEAD PER JOINT . . . POUNDS	4	$5\frac{1}{2}$	8	11	15	18	22	24	26	28	32	38	50
HEMP PER JOINT . . . OUNCES	6	7	9	11	13	18	20	22	24	28	32	38	44

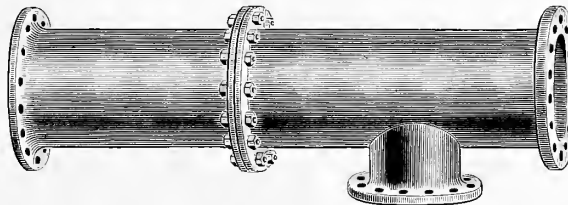
CAST-IRON FLANGED PIPE.

FIG. 2.

Our stock of Flanged Pipe patterns is very complete, having an assortment from 6 inch to 30 inch. Estimates furnished on application.

SPECIALS FOR CAST-IRON PIPE.



FIG. 3. QUARTER BEND.



FIG. 4. EIGHTH BEND.

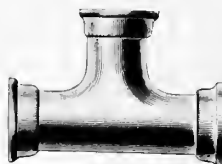


FIG. 5. TEE.

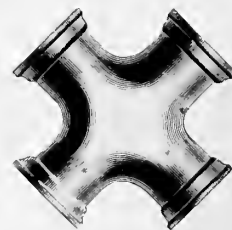


FIG. 6. CROSS.

QUARTER BENDS. 90°.—Fig. 3.

SIZE	INCHES	3	4	6	8	10	12	14	16	18	20	24	30
APPROXIMATE WEIGHT	POUNDS	48	60	112	200	266	376	450	650	750	1000	1500	2500

EIGHTH BENDS. 45°.—Fig. 4.

SIZE	INCHES	3	4	6	8	10	12	14	16	18	20	24	30
APPROXIMATE WEIGHT	POUNDS	42	60	125	200	276	390	430	510	820	1200	1450	2200

TEES.—Fig. 5.

Size, Inches.	Weight, Pounds.	Size, Inches.	Weight, Pounds.	Size, Inches.	Weight, Pounds.	Size, Inches.	Weight, Pounds.
3 x 3 x 3	80	8 x 8 x 4	250	12 x 12 x 10	525	24 x 24 x 24	2000
4 x 4 x 4	100	10 x 10 x 10	390	12 x 12 x 8	510	30 x 30 x 30	2880
6 x 6 x 6	204	10 x 10 x 8	354	12 x 12 x 6	500	36 x 36 x 36	4920
6 x 6 x 4	154	10 x 10 x 6	312	12 x 12 x 4	480	48 x 48 x 48	9000
8 x 8 x 8	294	10 x 10 x 4	300	16 x 16 x 16	900		
8 x 8 x 6	266	12 x 12 x 12	540	20 x 20 x 20	1390		

CROSSES.—Fig. 6.

Size, Inches.	Weight, Pounds.	Size, Inches.	Weight, Pounds.	Size, Inches.	Weight, Pounds.	Size, Inches.	Weight, Pounds.
3 x 3 x 3 x 3	100	8 x 8 x 4 x 4	296	12 x 12 x 10 x 10	670	24 x 24 x 24 x 24	2400
4 x 4 x 4 x 4	130	10 x 10 x 10 x 10	500	12 x 12 x 8 x 8	625	30 x 30 x 30 x 30	3600
6 x 6 x 6 x 6	200	10 x 10 x 8 x 8	496	12 x 12 x 6 x 6	600	36 x 36 x 36 x 36	6160
6 x 6 x 4 x 4	190	10 x 10 x 6 x 6	376	12 x 12 x 4 x 4	572	48 x 48 x 48 x 48	10500
8 x 8 x 8 x 8	400	10 x 10 x 4 x 4	370	16 x 16 x 16 x 16	1020		
8 x 8 x 6 x 6	354	12 x 12 x 12 x 12	714	20 x 20 x 20 x 20	1600		

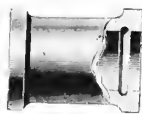


FIG. 7. SLEEVE.



FIG. 8. PLUG.



FIG. 9. CAP.

SIZE	INCHES	3	4	6	8	10	12	14	16	18	20	24	30	36	48
SLEEVES, WEIGHT	LBS.	30	42	76	110	146	208	300	360	360	557	710	965	1222	1650
PLUGS, WEIGHT	LBS.	10	12	22	32	46	66	70	100	125	150	185	370		
CAPS, WEIGHT	LBS.	15	25	60	75	100	120								

TAPPED PLUGS.—We carry in stock all sizes Plugs tapped for wrought-iron pipe.

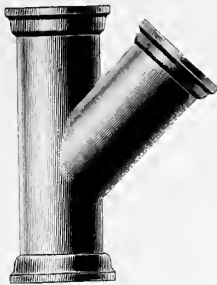
SPECIALS FOR CAST-IRON PIPE.

FIG. 10. Y BRANCH.



FIG. 11. REDUCER.



FIG. 12. INCREASER.

REDUCERS. (Long Pattern.)—Fig. 11.

Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.
4 x 3	80	10 x 8	300	12 x 6	300	16 x 12	475	24 x 20	766
6 x 4	150	10 x 6	270	12 x 4	280	16 x 10	435	30 x 24	1022
6 x 3	120	10 x 4	260	14 x 12	475	20 x 16	690	30 x 18	1000
8 x 6	220	12 x 10	310	14 x 10	430	20 x 14	575	36 x 30	1730
8 x 4	180	12 x 8	318	14 x 8	340	20 x 12	540	----	----

INCREASERS. (Long Pattern.)—Fig. 12.

Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.	Size. Inches.	Weight. Pounds.
4 x 3	78	8 x 4	162	10 x 4	185	10 x 8	204	12 x 8	318
6 x 4	108	8 x 6	164	10 x 6	195	12 x 6	230	12 x 10	332

Y BRANCHES.

All sizes from 4 to 36 inches.

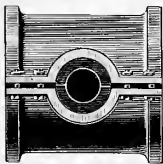


FIG. 13. SPLIT TEE.

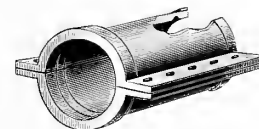
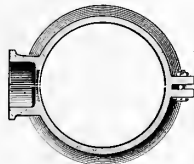


FIG. 14. SPLIT SLEEVE.

SIZE	INCHES	3	4	6	8	10	12	14	16	18	20
SPLIT TEE	EACH	4.00	5.00	6.50	8.50	10.00	12.00	15.00	17.00	20.00	24.00
SPLIT SLEEVE	EACH	3.50	3.75	4.50	5.50	6.50	8.50	10.00	12.00	14.00	16.00

We make all sizes and reductions in specials, from 2 to 48 inch, and carry a large stock constantly on hand, both at our Foundries and in Chicago. If in stock, and unless otherwise specified, we will fill all orders with Bell End Specials. *The above weights are given as standard simply for the purpose of estimating, and are approximately correct.* All our Specials are made with full water-way and easy bends.

All descriptions of special water-works castings made to order, including Flanged Pipe and all special pump connections.

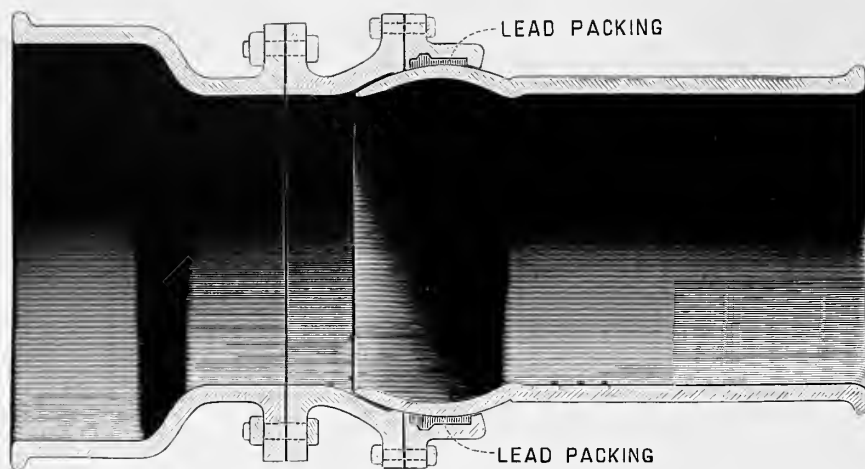


FIG. 15.

FLEXIBLE OR BALL PIPE JOINTS.

SIZE	INCHES	4	6	8	10	12	14	16	20	24
EACH		32.00	50.00	65.00	80.00	90.00	100.00	110.00	175.00	250.00

All of our Joints are positively water-tight, and are tested at 300 pounds per square inch hydrostatic pressure.

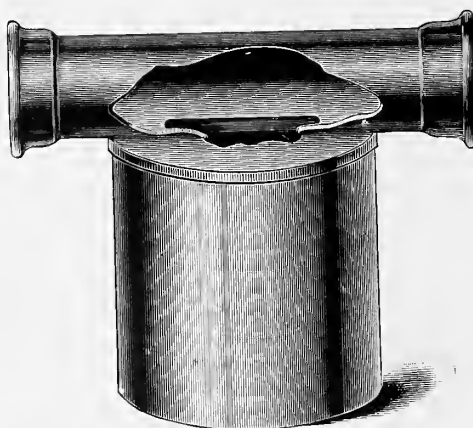


FIG. 16

DRIP BOXES.

All sizes, from 3 to 36 inches. We also have patterns for all castings pertaining to gas-works.

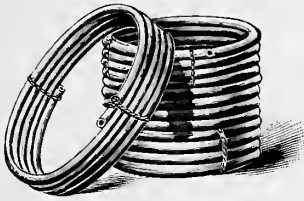


FIG. 17. LEAD PIPE.

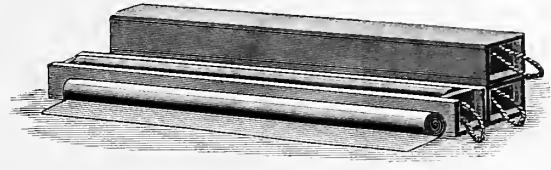


FIG. 18. SHEET LEAD.

WEIGHTS AND SIZES OF LEAD PIPE.—Fig. 17.

CALIBER.	Weight. Per Foot.		CALIBER.	Weight. Per Foot.		CALIBER.	Weight. Per Foot.		CALIBER.	Weight. Per Foot.	
	Lbs.	Ozs.		Lbs.	Ozs.		Lbs.	Ozs.		Lbs.	Ozs.
$\frac{1}{4}$ in. Tubing.....	---	6	$\frac{5}{8}$ in. Ex. ex. Strong.....	3	8	$1\frac{1}{4}$ in. Strong.....	4	12	$2\frac{1}{2}$ in. Waste.....	4	---
Fish Seine.....	---	15	$\frac{3}{4}$ in. Aqueduct.....	1	---	Ex. Strong.....	6	---	Light.....	6	---
$\frac{3}{8}$ in. Aqueduct.....	---	8	Ex. Light.....	1	8	Ex. ex. Strong.....	6	12	Medium, $\frac{3}{16}$ Thick.....	8	---
Ex. Light.....	---	10	Light.....	2	---	$1\frac{1}{2}$ in. Aqueduct.....	3	---	Strong, $\frac{1}{4}$	11	---
Light.....	---	12	Medium.....	2	4	Ex. Light.....	3	8	Ex. Strong, $\frac{5}{16}$	14	---
Medium.....	---	1	Strong.....	3	---	Light.....	4	---	Ex. ex. Strong, $\frac{3}{8}$	17	---
Strong.....	---	1	Ex. Strong.....	3	8	Medium.....	5	---	3 in. Waste.....	3	8
Ex. Strong.....	---	2	Ex. ex. Strong.....	4	---	Strong.....	6	---	Light.....	4	12
$\frac{1}{2}$ in. Aqueduct.....	---	10	$\frac{7}{8}$ in. Aqueduct.....	1	8	Ex. Strong.....	7	8	Medium, $\frac{3}{16}$ Thick.....	9	---
Ex. Light.....	---	12	Ex. Light.....	2	---	Ex. ex. Strong.....	9	---	Strong, $\frac{1}{4}$	12	---
Light.....	---	1	Light.....	2	8	$1\frac{3}{4}$ in. Ex. Light.....	3	12	Ex. Strong, $\frac{5}{16}$	16	---
Medium.....	---	1	1 in. Aqueduct.....	1	8	Light.....	4	8	Ex. ex. Strong, $\frac{3}{8}$	20	---
Strong.....	---	1	Ex. Light.....	2	---	Medium.....	5	8	$3\frac{1}{2}$ in. Waste.....	5	---
AA.....	---	2	Light.....	2	8	Strong.....	6	8	Strong, $\frac{1}{4}$ Thick.....	15	---
Ex. Strong.....	---	2	Medium.....	3	4	Ex. Strong.....	8	---	Ex. Strong, $\frac{5}{16}$	18	---
Ex. ex. Strong.....	---	3	Strong.....	4	---	2 in. Waste.....	3	---	4 in. Waste.....	5	---
$\frac{5}{8}$ in. Aqueduct.....	---	12	Ex. Strong.....	4	12	Ex. Light.....	4	---	Strong, $\frac{1}{4}$ Thick.....	16	---
Ex. Light.....	---	1	Ex. ex. Strong.....	5	8	Light.....	5	---	Ex. Strong, $\frac{5}{16}$	21	---
Light.....	---	1	$1\frac{1}{4}$ in. Aqueduct.....	2	---	Medium.....	7	---	Ex. ex. Strong, $\frac{3}{8}$	25	---
Medium.....	---	2	Ex. Light.....	2	8	Strong.....	8	---	$4\frac{1}{2}$ in. Waste.....	6	---
Strong.....	---	2	Light.....	3	---	Ex. Strong.....	9	---	5 in. Waste.....	8	---
Ex. Strong.....	---	3	Medium.....	3	12	Ex. ex. Strong.....	10	8			

PURE BLOCK TIN PIPE.

SIZE, INSIDE DIAMETER - INCHES	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
WEIGHT PER FOOT - OUNCES	4	4, 5, 6	4, 5, 8	4, 6	6, 8	9, 12	12, 16	12	20, 28	24 and upward	32 and upward

WEIGHTS AND SIZES OF SHEET LEAD.—Fig. 18.

WIRE GAUGE - NO.	19	18	17	16	15	14	13	12	11	10	9	8	7
THICKNESS - INCHES	$\frac{3}{64}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{4}$	$3\frac{1}{4}$	$4\frac{1}{4}$	$5\frac{1}{4}$	$6\frac{1}{4}$
POUNDS - PER SQUARE FOOT	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	11	12

Stock Rolls of Sheet Lead average 20 feet in length and from 7 feet to 9 feet 2 inches in width.
Special weights and lengths rolled to order on short notice.



FIG. 19.

Pigs weigh about 100 pounds. Market rates.

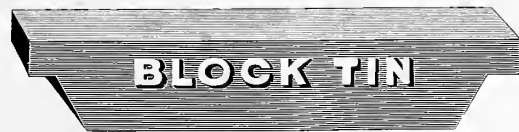


FIG. 20.

Pigs weigh about 100 pounds. Market rates.
Bars weigh about $1\frac{1}{2}$ pounds. Market rates.



FIG. 21.

40-60 Solder. Market rates. Half and Half. Market rates.

AKRON SEWER PIPE.

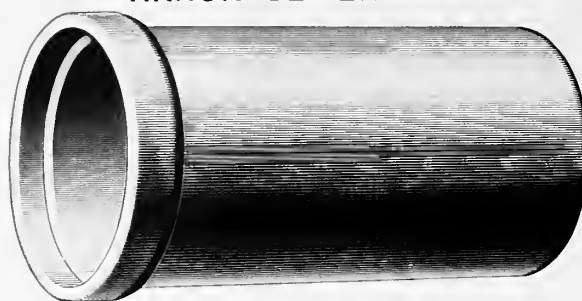


FIG. 22 SOCKET JOINT

SIZE	INCHES	2	3	4	5	6	8	9	10	12	15	18	20	24
PRICE PER FOOT . . . . .		.12	.15	.20	.25	.30	.40	.50	.60	.75	1.00	1.50	1.75	2.50
WEIGHT PER FOOT	POUNDS	6	8	10	12	16	22	26	32	45	63	84	99	130
AREA IN INCHES		3.141	7.068	12.566	19.635	28.274	50.265	63.617	78.539	113.09	176.71	254.46	314.16	452.39

Ring Pipe, same list as above. Made only in sizes 6, 9, 12, 15, and 18 inches.

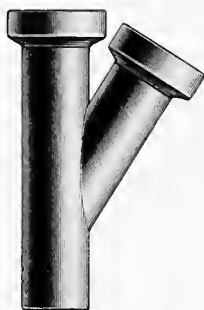


FIG. 23. Y BRANCH.

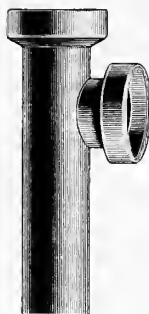


FIG. 24. TEE BRANCH.



FIG. 25. INCREASER.



FIG. 26. REDUCER.

Y BRANCHES AND TEE BRANCHES.—Figs. 23 and 24.

SIZE	INCHES	2	3	4	5	6	8	9	10	12	15	18	20	24
PER FOOT . . . . .		.25	.30	.40	.50	.60	.80	1.00	1.20	1.50	2.00	3.00	3.50	5.00

INCREASERS AND REDUCERS.—Figs. 25 and 26.

SIZE	INCHES	2	3	4	5	6	8	9	10	12	15	18	20	24
PER FOOT . . . . .			.23	.30	.38	.45	.60	.75	.90	1.13	1.50	2.25	2.63	3.75



FIG. 27. 2-FOOT CURVE.



FIG. 28. 1-FOOT CURVE.

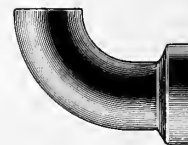


FIG. 29. ELBOW.

CURVES AND ELBOWS.—Figs. 27, 28, and 29

SIZE	INCHES	2	3	4	5	6	8	9	10	12	15	18	20	24
EACH . . . . .		.40	.50	.60	.75	1.00	1.50	1.75	2.10	2.75	3.75	4.75	5.75	8.00



FIG. 30. SLANT, 1 OR 2 FOOT.

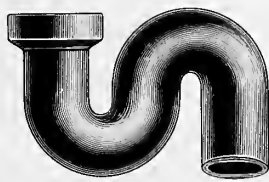


FIG. 31. S TRAP.

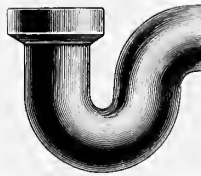


FIG. 32. P TRAP.

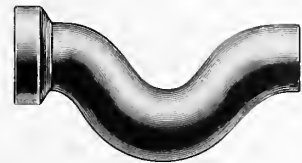


FIG. 33. RUNNING TRAP.

SLANTS.—Fig. 30.

SIZE - - - - - INCHES	6	8	9	10	12	15	18	20	24
PER FOOT, LONG SIDE - - - - -	.45	.60	.75	.90	1.15	1.50	2.25	2.65	3.15

TRAPS.—Figs. 31, 32, and 33.

SIZE - - - - - INCHES	2	3	4	5	6	8	9	10	12	15	18	20	24
EACH - - - - -	1.00	1.20	1.60	2.00	2.40	3.20	4.00	5.00	8.00	10.00	---	---	---
WITH HAND HOLE - - - EACH	1.50	1.70	2.10	2.50	2.90	3.70	4.50	5.50	8.50	10.50	---	---	---

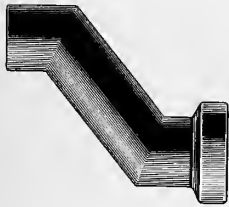


FIG. 34. HALF TRAP.

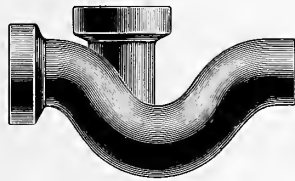


FIG. 35. RUNNING TRAP WITH VENT.



FIG. 36. RING PIPE.



FIG. 37. RING.

TRAPS.—Figs. 34 and 35.

SIZE - - - - - INCHES	2	3	4	5	6	8	9	10	12	15
FIG. 34 - - - - - EACH	---	---	---	1.50	2.00	3.00	3.50	4.50	6.00	8.00
FIG. 35 - - - - - EACH	1.50	1.70	2.10	2.50	2.90	3.70	4.50	5.50	8.50	10.50

Ring Pipe, same list as Socket Joint Pipe, made only in sizes 6, 9, 12, 15, and 18 inches.

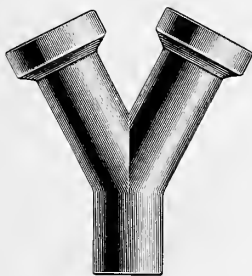


FIG. 38. V BRANCH.

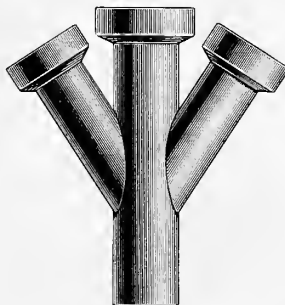


FIG. 39. DOUBLE Y BRANCH.

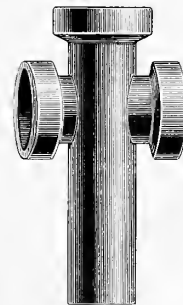


FIG. 40. DOUBLE TEE BRANCH.

DOUBLE BRANCHES.—Figs. 38, 39, and 40.

SIZE - - - - - INCHES	3	4	5	6
EACH - - - - -	.90	1.20	1.50	1.80

STANDARD PIPE FOR GAS, STEAM, AND WATER.



FIG. 41.

BUTT-WELDED.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
BLACK	PER FOOT	.04	.04	.04 $\frac{1}{2}$	.06	.07 $\frac{1}{2}$	.11	.14 $\frac{1}{2}$
GALVANIZED	PER FOOT	.05	.05	.05 $\frac{1}{2}$	.08	.10	.14	.19
TARRED	PER FOOT	---	.04 $\frac{1}{2}$	.05 $\frac{1}{2}$	.07 $\frac{1}{2}$	.09	.12 $\frac{1}{2}$	.17
FOR CUTTING EXTRA THREADS	---	.05	.05	.05	.05	.05	.06	.07

LAP-WELDED.

SIZE	INCHES	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
BLACK	PER FOOT	.24	.33	.50	.64	.76	.90	1.06	1.28	1.65
GALVANIZED	PER FOOT	.28	.38	.57	.70	.90	1.05	1.31	1.60	2.00
TARRED	PER FOOT	.30	.39	.58	.73	.91	1.10	1.36	1.58	2.00
FOR CUTTING EXTRA THREADS	---	.08	.10	.15	.20	.25	.35	.45	.55	.70

SIZE	INCHES	7	8	9	10	11	12	13	14	15
BLACK	PER FOOT	2.10	2.75	3.75	4.75	6.00	7.00	8.00	9.50	11.00
GALVANIZED	PER FOOT	---	---	---	---	---	---	---	---	---
TARRED	PER FOOT	---	---	---	---	---	---	---	---	---
FOR CUTTING EXTRA THREADS	---	.85	1.00	1.25	1.50	2.00	2.50	3.00	3.50	5.00

DIMENSIONS AND WEIGHTS—BUTT-WELDED.

NOMINAL SIZE INSIDE DIAMETER	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
ACTUAL OUTSIDE DIAMETER	INCHES	.405	.54	.675	.84	1.05	1.315	1.66
NOMINAL WEIGHT PER FOOT	POUNDS	0.24	0.42	0.56	0.84	1.12	1.67	2.24
THICKNESS	INCHES	.068	.088	.091	.109	.113	.134	.140
THREADS PER INCH OF SCREW	---	27	18	18	14	14	11 $\frac{1}{2}$	11 $\frac{1}{2}$

DIMENSIONS AND WEIGHTS—LAP-WELDED.

NOMINAL SIZE INSIDE DIAMETER	INCHES	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
ACTUAL OUTSIDE DIAMETER	INCHES	1.9	2.375	2.875	3.5	4	4.5	5	5.563	6.675
NOMINAL WEIGHT PER FOOT	POUNDS	2.68	3.61	5.74	7.54	9.00	10.66	12.49	14.50	18.76
THICKNESS	INCHES	.145	.154	.204	.217	.226	.237	.246	.259	.280
THREADS PER INCH OF SCREW	---	11 $\frac{1}{2}$	11 $\frac{1}{2}$	8	8	8	8	8	8	8

NOMINAL SIZE INSIDE DIAMETER	INCHES	7	8	9	10	11	12	13	14	15
ACTUAL OUTSIDE DIAMETER	INCHES	7.625	8.625	9.625	10.75	12	12.75	14	15	16
NOMINAL WEIGHT PER FOOT	POUNDS	23.27	28.18	33.70	40.00	45.02	49.00	54.00	58.00	62.00
THICKNESS	INCHES	.301	.322	.344	.366	.375	.375	.375	.375	.375
THREADS PER INCH OF SCREW	---	8	8	8	8	8	8	8	8	8

Owing to the frequent changes made by the manufacturers in the price list of Pipe, we issue current price lists, which will be furnished on application.

STANDARD PIPE.**EXTRA STRONG.**

SIZE - - - - INCHES	BUTT-WELDED.							LAP-WELDED.							
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
BLACK - - - PER FOOT	.08	.08	.09	.12	.15	.22	.29	.48	.66	1.00	1.28	1.52	1.80	2.56	3.30
ACTUAL OUTSIDE DIA. INCH.	.405	.54	.675	.84	1.05	1.315	1.66	1.90	2.375	2.875	3.50	4.00	4.50	5.563	6.625
APPROX. INSIDE DIA. INCH.	.205	.294	.421	.542	.736	.951	1.272	1.494	1.933	2.315	2.892	3.358	3.818	4.813	5.75
THICKNESS - - - INCHES	.100	.123	.127	.149	.157	.182	.194	.203	.221	.280	.304	.321	.341	.375	.437
NOMINAL WEIGHT PER FOOT	.29	.54	.74	1.09	1.39	2.17	3.00	3.63	5.02	7.67	10.25	12.47	14.97	20.54	28.58

DOUBLE EXTRA STRONG.

SIZE - - - - - INCHES	BUTT-WELDED.				LAP-WELDED.							
	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
BLACK - - - - - PER FOOT	.24	.30	.44	.58	.96	1.32	2.00	2.56	3.04	3.60	5.12	6.60
ACTUAL OUTSIDE DIAMETER - INCHES	.84	1.05	1.315	1.66	1.90	2.375	2.875	3.50	4.00	4.50	5.563	6.625
APPROX. INSIDE DIAMETER - INCHES	.244	.422	.587	.885	1.088	1.491	1.755	2.284	2.716	3.136	4.063	4.875
THICKNESS - - - - - INCHES	.298	.314	.364	.388	.406	.442	.560	.608	.642	.682	.75	.875
NOMINAL WEIGHT - - - - - PER FOOT	1.70	2.44	3.65	5.20	6.40	9.02	13.68	18.56	22.75	27.48	38.12	53.11

Extra Strong and Double Extra Strong Pipe is always shipped without threads or couplings, unless otherwise specified.

Threads and couplings on Extra Strong and Double Extra Strong Pipe are always charged extra. Quotations will not cover them unless they are clearly specified in requests for prices.

STANDARD LAP-WELDED CHARCOAL IRON BOILER TUBES.

OUTSIDE DIAMETER - - INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4
PER FOOT - - - - -	.37	.35	.31	.28	.26	.29	.32	.36	.39	.43	.45	.47	.54
THICKNESS - - - - - INCHES	.095	.095	.095	.095	.095	.095	.109	.109	.109	.120	.120	.120	.134
THICKNESS, NEAREST BGM. W. G. -	13	13	13	13	13	13	12	12	12	11	11	11	10
NOMINAL WEIGHT - - PER FOOT	.90	1.15	1.40	1.66	1.91	2.16	2.75	3.04	3.33	3.96	4.28	4.60	5.47

OUTSIDE DIAMETER - - INCHES	$4\frac{1}{2}$	5	6	7	8	9	10	11	12	13	14	15	16
PER FOOT - - - - -	.62	.74	1.00	1.45	1.85	2.25	2.75	3.25	3.55	4.20	4.75	5.75	6.75
THICKNESS - - - - - INCHES	.134	.148	.165	.165	.165	.180	.203	.220	.229	.238	.248	.259	.270
THICKNESS, NEAREST BGM. W. G. -	10	9	8	8	8	7	6	5	$4\frac{1}{2}$	4	$3\frac{1}{2}$	3	$2\frac{1}{2}$
NOMINAL WEIGHT - - PER FOOT	6.17	7.58	10.16	11.90	13.65	16.76	21.00	25.00	28.50	32.06	36.00	40.60	45.20

The above prices are for tubes up to 20 feet long. For tubes in excess of that length, 10 per cent will be added to net of invoice.

Extra thickness of tubes will be charged as per list of extra gauges.

No deduction for tubes lighter than standard.

EXTRA WIRE GAUGE OF BOILER TUBES AWAY FROM STANDARD.

For EXTRA wire gauge "Boiler Tubes" away from standard, not exceeding four wire gauges, add one cent for each inch in diameter to the net price per foot for each additional gauge. To calculate price, take discount from list prices of regular Tubes and add net charge for extra wire gauge.

For 1 number.	For 2 numbers.	For 3 numbers.	For 4 numbers.
2 inch, 2c	2 inch, 4c	2 inch, 6c	2 inch, 8c
$2\frac{1}{4}$ " $2\frac{1}{4}$ c	$2\frac{1}{4}$ " $4\frac{1}{2}$ c	$2\frac{1}{4}$ " $6\frac{3}{4}$ c	$2\frac{1}{4}$ " 9c
$2\frac{1}{2}$ " $2\frac{1}{2}$ c	$2\frac{1}{2}$ " 5c	$2\frac{1}{2}$ " $7\frac{1}{2}$ c	$2\frac{1}{2}$ " 10c

Beyond four numbers, price is per pound.

Swaging or swelling 2 inch or $2\frac{1}{4}$ inch Tubes, 5c per end extra.

Cutting screws on Tubes, 80c per hour.

STANDARD WELL CASING.

FOR ARTESIAN, SALT, OIL, AND GAS WELLS.

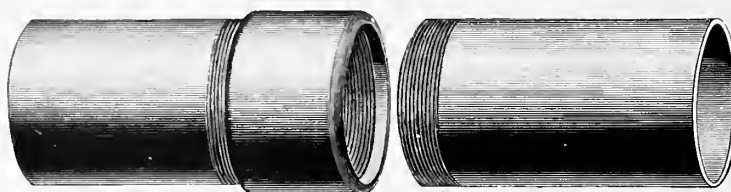


FIG. 42. SCREW AND SOCKET JOINT.

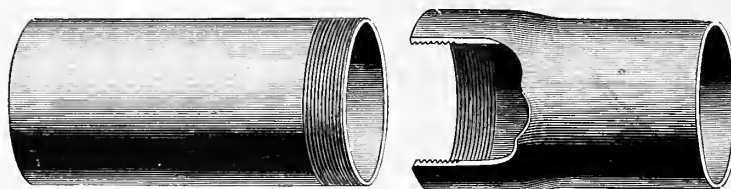


FIG. 43. INSERTED JOINT.

NOMINAL INSIDE DIAMETER - INCHES	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4	4 $\frac{1}{4}$	4 $\frac{1}{2}$	4 $\frac{3}{4}$	5	5 $\frac{3}{8}$
ACTUAL OUTSIDE DIAMETER - INCHES	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4	4 $\frac{1}{4}$	4 $\frac{1}{2}$	4 $\frac{3}{4}$	5	5 $\frac{1}{4}$	5 $\frac{1}{2}$
ACTUAL OUTSIDE DIAMETER BELL END OF INSERTED CASING - INCHES	2 $\frac{3}{8}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3 $\frac{1}{8}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4 $\frac{1}{8}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	4 $\frac{3}{4}$	5 $\frac{1}{8}$	5 $\frac{1}{4}$	5 $\frac{1}{2}$
ACTUAL OUTSIDE DIAMETER OF SOCKET ON SCREW AND SOCKET CASING - INCHES	2 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{8}$	4 $\frac{3}{8}$	4 $\frac{1}{2}$	4 $\frac{3}{4}$	4 $\frac{3}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{4}$	5 $\frac{3}{8}$	6 $\frac{3}{8}$	6 $\frac{5}{8}$
THICKNESS - INCHES	.109	.109	.109	.109	.12	.12	.12	.134	.134	.134	.148	.148	.148	.156
NOMINAL WEIGHT PER FOOT - POUNDS	2.16	2.75	3.04	3.33	3.96	4.28	4.60	5.47	5.85	6.00	6.55	7.58	8.00	8.40
PRICE PER FOOT	.29	.32	.36	.39	.43	.45	.47	.54	.57	.62	.68	.74	.79	.86
NOMINAL INSIDE DIAMETER - INCHES	5 $\frac{5}{8}$	6 $\frac{1}{4}$	6 $\frac{3}{4}$	7 $\frac{1}{4}$	7 $\frac{1}{2}$	8 $\frac{1}{4}$	8 $\frac{3}{4}$	9 $\frac{1}{4}$	10 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{4}$	13 $\frac{1}{2}$	14 $\frac{1}{2}$	15 $\frac{1}{4}$
ACTUAL OUTSIDE DIAMETER - INCHES	6	6 $\frac{5}{8}$	7	7 $\frac{5}{8}$	8	8 $\frac{1}{2}$	9	10	11	12	13	14	15	16
ACTUAL OUTSIDE DIAMETER BELL END OF INSERTED CASING - INCHES	6 $\frac{1}{4}$	6 $\frac{3}{4}$	7 $\frac{1}{8}$	7 $\frac{3}{4}$	8 $\frac{1}{4}$	9	9 $\frac{3}{4}$	10 $\frac{3}{4}$	11 $\frac{3}{4}$	12 $\frac{3}{4}$	---	---	---	---
ACTUAL OUTSIDE DIAMETER OF SOCKET ON SCREW AND SOCKET CASING - INCHES	6 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{3}{8}$	8 $\frac{1}{8}$	8 $\frac{1}{4}$	9 $\frac{1}{8}$	9 $\frac{3}{8}$	10 $\frac{1}{8}$	---	12 $\frac{1}{8}$	---	---	---	---
THICKNESS - INCHES	.156	.165	.165	.165	.172	.180	.180	.191	.211	.229	.25	.25	.25	.25
NOMINAL WEIGHT PER FOOT - POUNDS	10.16	11.50	12.45	13.50	15.00	16.00	17.50	21.00	23.00	25.15	35.75	38.82	42.00	45.10
PRICE PER FOOT	1.00	1.30	1.45	1.70	1.85	2.10	2.25	2.75	3.25	3.55	4.20	4.75	5.75	6.75

Unless otherwise ordered, Screw and Socket Joint Casing will be sent, and size given in order will be considered as inside diameter required.

SPECIAL AND HEAVY WELL CASING.

WITH SCREW AND SOCKET OR WITH INSERTED JOINT.

NOMINAL INSIDE DIAM. - INCHES	4 $\frac{1}{4}$	4 $\frac{1}{2}$	5	5	5	5 $\frac{3}{4}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{3}{4}$	6 $\frac{1}{4}$	6 $\frac{1}{4}$	6 $\frac{3}{4}$	7 $\frac{1}{2}$	8 $\frac{1}{4}$	8 $\frac{1}{4}$
ACTUAL OUTSIDE DIAM. - INCHES	4 $\frac{1}{2}$	4 $\frac{3}{4}$	5 $\frac{1}{4}$	5 $\frac{1}{4}$	5 $\frac{1}{4}$	5 $\frac{3}{4}$	6	6	6	6 $\frac{3}{4}$	6 $\frac{3}{4}$	7	8	8 $\frac{3}{4}$	8 $\frac{3}{4}$
THICKNESS - INCHES	.191	.191	.203	.259	.340	.238	.191	.251	.271	.191	.231	.231	.231	.220	.271
NOMINAL WEIGHT PER FT. - LBS.	9	9	10	13	17	13	12	14	17	13	17	17	20	20	24
PRICE PER FOOT	.90	.92	1.00	1.20	1.50	1.25	1.15	1.30	1.55	1.45	1.80	1.85	2.25	2.50	2.90

Heavy Casing can be made with Flush Joints, but it is not adapted to Standard Casing.

Special.

PIPE CUT TO ORDER.

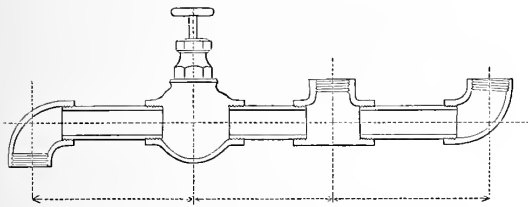


FIG. 44. DIAGRAM SHOWING SCREWED JOINTS.

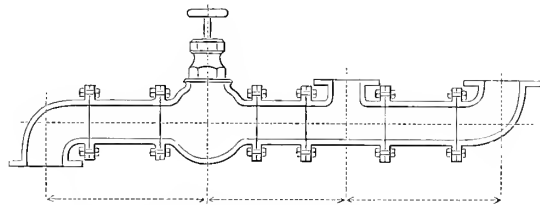


FIG. 45. DIAGRAM SHOWING FLANGED JOINTS.

We have every facility for cutting and fitting all sizes of pipe to diagram.

In ordering, great care should be taken in making diagrams; and all measurements given center to center. It is always advisable to state purpose for which pipe is to be used and pressure it must stand.

If Flanged Fittings are used, state if desired drilled, and if with Bolts and Gaskets complete.

CAST-IRON FITTINGS.



FIG. 46. ELBOW.

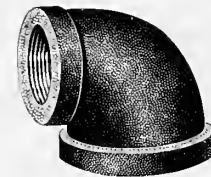


FIG. 47. REDUCING ELBOW.

ELBOWS, STRAIGHT SIZES.—Fig. 46.

SIZE	INCHES	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
PLAIN	EACH	.04	.05	.06	.09	.13	.20	.25	.40	.75	1.10
GALVANIZED	EACH	.06	.09	.12	.18	.30	.45	.55	.85	1.60	2.35
PITCHED	EACH	----	----	----	----	.20	.26	.35	.50	1.30	1.60
SIZE	INCHES	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12
PLAIN	EACH	1.35	1.80	2.50	2.85	3.90	7.00	10.00	13.00	20.00	30.00
GALVANIZED	EACH	2.80	4.00	5.75	6.25	8.75	15.00	20.00	26.00	40.00	60.00
PITCHED	EACH	1.90	2.50	----	----	----	----	----	----	----	----

ELBOWS, REDUCING SIZES.—Fig. 47.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$
PLAIN	EACH	.06	.07	.11	.16	.23	.29	.46	.85	1.25	1.50
GALVANIZED	EACH	----	.14	.22	.32	.46	.58	.92	1.70	2.50	3.00
SIZE	INCHES	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12	----
PLAIN	EACH	2.10	3.00	3.25	4.50	8.00	11.50	15.00	23.00	35.00	----
GALVANIZED	EACH	4.20	6.00	6.50	9.00	16.00	23.00	30.00	46.00	70.00	----

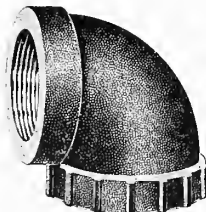


FIG. 48. RIGHT AND LEFT ELBOW.

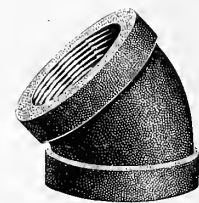


FIG. 49. 45° ELBOW.

ELBOWS.—Figs. 48 and 49.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$
R. AND L. PLAIN	EACH	.06	.07	.11	.16	.23	.29	.46	.85	1.25	1.50
45° PLAIN	EACH	.10	.10	.15	.20	.26	.35	.50	1.30	1.60	1.90
45° GALVANIZED	EACH	.20	.20	.30	.40	.50	.70	1.00	2.60	3.20	3.75
SIZE	INCHES	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12	14
R. AND L. PLAIN	EACH	2.10	3.00	3.25	4.50	----	----	----	----	----	55.00
45° PLAIN	EACH	2.50	3.50	4.50	5.50	9.00	12.00	15.50	22.00	33.00	55.00
45° GALVANIZED	EACH	5.00	7.00	9.00	11.00	18.00	24.00	31.00	44.00	66.00	110.00

CAST-IRON FITTINGS.

FIG. 50. TEE.



FIG. 51. REDUCING TEE.

TEES, STRAIGHT SIZES.—Fig. 50.

SIZE INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH . . . . .	.06	.07	.09	.13	.20	.30	.38	.60	1.10	1.50
GALVANIZED EACH	.08	.13	.17	.25	.40	.60	.85	1.20	2.25	2.85
SIZE INCHES	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
EACH	2.00	2.50	3.50	4.00	5.50	10.00	15.00	20.00	25.00	45.00
GALVANIZED EACH	3.80	5.25	7.00	8.00	12.00	18.00	24.00	31.00	45.00	80.00

TEES, REDUCING SIZES.—Fig. 51.

SIZE INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
EACH . . . . .	.08	.11	.15	.23	.35	.44	.70	1.25	1.75	2.30
GALVANIZED EACH	----	.22	.30	.46	.70	.88	1.40	2.50	3.50	4.60
SIZE INCHES	4	$4\frac{1}{2}$	5	6	7	8	9	10	12	14
EACH	2.90	4.00	4.60	6.35	11.50	17.00	23.00	30.00	50.00	80.00
GALVANIZED EACH	5.80	8.00	9.20	12.70	23.00	34.00	44.00	60.00	100.00	160.00

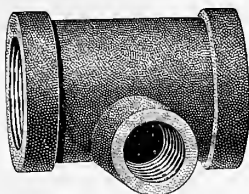


FIG. 52. ECCENTRIC TEE.

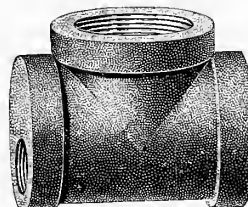


FIG. 53. ECCENTRIC TEE.

ECCENTRIC TEES.

These fittings are designed to prevent the accumulation and lodgment of condensation.

Orders must be accompanied with sketch, showing position in which the fitting is to be placed.

Prices on application.

CAST-IRON FITTINGS.

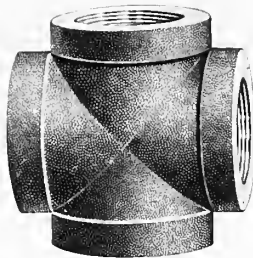


FIG. 54. CROSS.

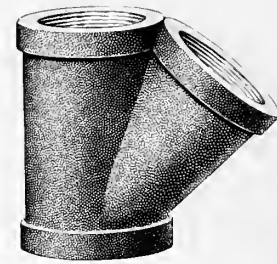


FIG. 55. Y BRANCH.

CROSSES.—Fig. 54.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
STRAIGHT SIZES	EACH	.12	.18	.28	.40	.50	.80	1.50	2.20	2.70	3.50
STRAIGHT SIZES, GALVANIZED	EACH	.23	.35	.55	.80	1.00	1.60	3.00	4.25	5.50	7.00
REDUCING SIZES	EACH	.14	.21	.32	.46	.58	.92	1.70	2.50	3.00	4.00
REDUCING SIZES, GALVANIZED	EACH	.28	.42	.64	.92	1.16	1.84	3.40	5.00	6.00	8.00

SIZE	INCHES	$4\frac{1}{2}$	5	6	7	8	9	10	12	14	----
STRAIGHT SIZES	EACH	5.00	5.70	7.80	14.00	20.00	26.00	40.00	60.00	105.00	----
STRAIGHT SIZES, GALVANIZED	EACH	9.00	10.50	16.00	23.00	35.00	40.00	80.00	100.00	----	----
REDUCING SIZES	EACH	6.00	6.60	9.00	16.00	23.00	30.00	46.00	70.00	----	----
REDUCING SIZES, GALVANIZED	EACH	12.00	13.20	18.00	32.00	46.00	60.00	92.00	140.00	----	----

Y BRANCHES.—Fig. 55.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8	9	10
EACH		.25	.30	.40	.60	.90	1.25	2.25	3.25	4.50	6.00	9.00	12.00	17.00	25.00	35.00	55.00
GALVANIZED	EACH	.50	.60	.80	1.20	1.80	2.50	4.50	6.50	9.75	12.00	18.00	24.00	34.00	50.00	70.00	90.00
REDUCING	EACH	.29	.35	.46	.70	1.35	1.90	2.60	3.75	5.20	6.90	10.35	13.80	19.50	28.75	40.00	60.00



FIG. 56. REDUCER.

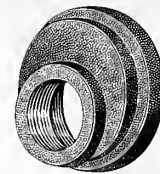


FIG. 57. ECCENTRIC REDUCER.

REDUCERS.—Fig. 56.

SIZE	INCHES	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
EACH		.75	1.20	1.50	2.00	2.75	3.00	4.00	8.00	10.00	12.50	15.00	22.00
GALVANIZED	EACH	1.20	1.80	2.25	3.00	4.50	5.00	6.00	12.00	15.00	18.00	23.00	33.00

ECCENTRIC REDUCERS.—Fig. 57.

SIZE	INCHES	$2\frac{1}{2} \times 1\frac{1}{2}$	$2\frac{1}{2} \times 1\frac{1}{4}$	$2\frac{1}{2} \times 2$	3×2	$3 \times 2\frac{1}{2}$	$3\frac{1}{2} \times 3$	$3\frac{1}{2} \times 2\frac{1}{2}$	$4 \times 3\frac{1}{2}$	4×3	5×4	6×4
EACH		1.50	1.50	1.50	2.40	2.40	3.00	3.00	4.00	4.00	6.00	8.00

CAST-IRON FITTINGS.

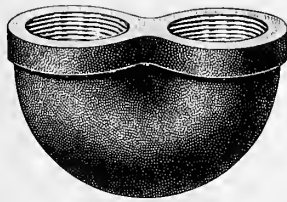


FIG. 58. CLOSE PATTERN.

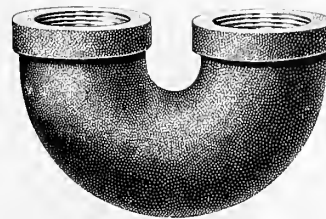


FIG. 59. OPEN PATTERN.

RETURN BENDS, CLOSE PATTERN.—Fig. 58.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
CENTER TO CENTER	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{2}$
EACH . . . . .	.10	.15	.22	.34	.45	.75	1.50	2.25
GALVANIZED EACH	.20	.30	.44	.68	.90	1.50	3.00	4.50
RIGHT AND LEFT EACH	.12	.17	.25	.40	.52	.86	1.75	2.60

RETURN BENDS, OPEN PATTERN.—Fig. 59.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
CENTER TO CENTER	$1\frac{1}{8}$	$1\frac{1}{4}$	$2\frac{3}{8}$	3	$3\frac{1}{2}$	$4\frac{1}{2}$	$5\frac{1}{2}$	$6\frac{1}{2}$
EACH . . . . .	.15	.20	.30	.48	.68	1.15	1.75	2.75
GALVANIZED EACH	----	.40	.60	.96	1.36	2.30	3.50	5.50
RIGHT AND LEFT EACH	----	.25	.35	.58	.80	1.35	2.00	3.20



FIG. 60. BACK OUTLET.

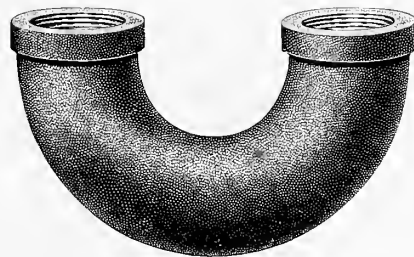


FIG. 61. WIDE PATTERN.

RETURN BENDS, BACK OUTLET.—Fig. 60.

SIZE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
CENTER TO CENTER	$1\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{2}$
EACH . . . . .	.30	.40	.60	.90	1.25	2.25	3.25
GALVANIZED EACH	.60	.90	1.30	1.80	2.70	4.50	6.50
RIGHT AND LEFT EACH	.35	.48	.70	1.05	1.45	2.60	3.75

RETURN BENDS, WIDE PATTERN.—Fig. 61.

SIZE INCHES	1	1	1	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	4	4
CENTER TO CENTER	3	4	5	6	8	4	6	$4\frac{7}{8}$	6	8	$4\frac{7}{8}$	6	$7\frac{1}{2}$	11
RIGHT HAND . . . EACH	.45	.50	.60	.75	1.00	1.00	1.25	1.30	1.60	2.00	1.75	2.00	5.75	6.50
GALVANIZED . . . EACH	.80	.90	1.10	1.30	1.60	1.75	2.00	2.30	2.60	3.25	3.00	3.25	10.00	11.00

CAST-IRON FITTINGS.



FIG. 62. CAP.

CAPS.—Fig. 62.



FIG. 63. LOCKNUT.

SIZE	INCHES	2½	3	3½	4	4½	5	6	7	8	9	10	12	14	16
EACH		.50	.80	1.10	1.30	1.60	2.00	2.35	4.00	4.35	6.00	7.25	10.00	25.00	35.00
GALVANIZED	EACH	1.00	1.60	2.20	2.60	3.20	4.00	4.70	8.00	8.70	11.50	14.50	20.00	---	---

LOCKNUTS.—Fig. 63.

SIZE	INCHES	2½	3	3½	4	4½	5	6	7	8	9	10	12
EACH		.40	.50	.70	.95	1.25	1.35	1.90	2.50	3.50	4.00	4.50	6.00
GALVANIZED	EACH	.60	.75	1.10	1.50	2.00	2.20	3.00	4.00	5.50	6.00	7.00	9.00



FIG. 64. BUSHING.

BUSHINGS.—Figs. 64 and 65.



FIG. 65. FACED BUSHING.

SIZE	INCHES	½	¾	1	1¼	1½	2	2½	3	3½	4
EACH		.06	.07	.09	.13	.17	.27	.42	.60	.80	1.00
GALVANIZED	EACH	.07	.10	.14	.21	.30	.44	.60	1.00	1.40	1.50

SIZE	INCHES	4½	5	6	7	8	9	10	12	14	---
EACH		1.50	1.85	2.50	3.75	5.50	6.50	7.50	10.00	25.00	---
GALVANIZED	EACH	2.25	3.00	4.00	6.00	8.00	9.00	12.00	15.00	---	---

Bushings reducing one size only, up to and including 2½ inches, are malleable, and will be found listed among the Malleable Fittings.



FIG. 66. PLUG.

PLUGS.—Figs. 66 and 67.



FIG. 67. COUNTERSUNK PLUG.

SIZE	INCHES	¼	⅜	½	¾	1	1¼	1½	2	2½	3	3½
EACH		.03	.03	.04	.05	.06	.10	.13	.20	.35	.50	.75
GALVANIZED	EACH	.05	.05	.06	.08	.10	.15	.23	.35	.57	.95	1.35
COUNTERSUNK	EACH	---	---	.06	.07	.09	.11	.15	.22	---	---	---
LEFT HAND	EACH	---	---	---	.06	.08	.12	.16	.25	---	---	---

SIZE	INCHES	4	4½	5	6	7	8	9	10	12	14	16
EACH		.85	1.35	1.75	2.40	3.75	5.50	6.50	7.50	10.00	25.00	35.00
GALVANIZED	EACH	1.60	2.35	3.45	4.65	7.50	11.00	13.00	15.00	20.00	---	---

CAST-IRON FITTINGS.



FIG. 68. COMMON FLANGE.

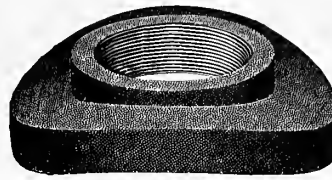


FIG. 69. CURVED FLANGE.

FLANGES.— Figs. 68 and 69.

SIZE OF PIPE, INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Diameter Flange, Inches.																			
3	.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
$3\frac{1}{2}$	—	.17	.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	.21	.22	.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—
$4\frac{1}{2}$	—	—	—	—	—	.31	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	.33	.33	.35	.36	—	—	—	—	—	—	—	—	—	—	—	—	—
$5\frac{1}{2}$	—	—	—	—	—	—	.45	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	.52	.52	.52	.55	.55	—	—	—	—	—	—	—	—	—	—	—
$6\frac{1}{2}$	—	—	—	—	—	—	.65	.65	.65	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	.75	.75	.75	—	—	—	—	—	—	—	—	—	—
$7\frac{1}{2}$	—	—	—	—	—	—	—	—	.84	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	.90	.90	.96	1.00	1.04	—	—	—	—	—	—	—	—
$8\frac{1}{2}$	—	—	—	—	—	—	—	—	—	1.13	1.22	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	1.22	1.26	1.40	1.55	—	—	—	—	—	—
$9\frac{1}{2}$	—	—	—	—	—	—	—	—	—	—	—	1.70	1.70	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	1.75	1.76	1.90	2.00	2.40	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	2.32	2.40	2.80	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	2.80	3.20	3.75	—	—	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	—	3.45	4.10	4.50	—	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	4.50	5.00	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.00	5.60	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.25	7.00	7.25	—
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.75	8.00	—
18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.25	10.75
19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.00	12.00
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.50

Curved Flanges made to order at double above prices.

Blank Flanges to order at 25 per cent advance on above list.



FIG. 70. FLOOR FLANGE.

FLOOR FLANGES.— Fig. 70.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
DIAMETER OF FLANGE		3	$3\frac{1}{2}$	4	4	5	5	6
EACH		.14	.17	.21	.22	.30	.35	.55



FIG. 71. STANDARD FLANGE UNION.

CAST-IRON FITTINGS.

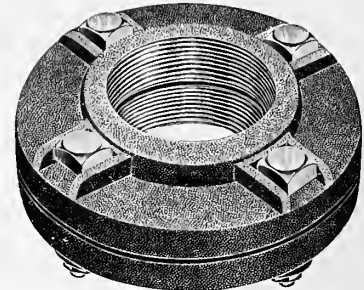


FIG. 72. EXTRA HEAVY FLANGE UNION.

STANDARD FLANGE UNIONS (With Rubber Gasket).—Fig. 71.

SIZE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
DIAMETER OF FLANGES INCHES	$3\frac{1}{4}$	$3\frac{1}{2}$	$4\frac{1}{4}$	$4\frac{3}{4}$	$5\frac{1}{4}$	$5\frac{3}{4}$	$6\frac{3}{4}$	$6\frac{1}{2}$	$7\frac{1}{2}$	$8\frac{1}{4}$
NUMBER OF BOLTS IN EACH	3	4	4	4	4	4	4	4	4	4
EACH . . . . .	.65	.70	.85	1.15	1.50	1.75	2.25	2.75	3.15	4.50
GALVANIZED EACH	1.30	1.40	1.70	2.30	3.00	3.50	4.50	5.50	6.30	9.00

SIZE INCHES	5	6	7	8	9	10	12	14	16	----
DIAMETER OF FLANGES INCHES	$9\frac{1}{4}$	$10\frac{1}{4}$	12	13	14	16	18	20	23	----
NUMBER OF BOLTS IN EACH	5	5	6	7	8	8	10	10	16	----
EACH	5.00	6.50	8.00	10.00	12.50	15.00	22.00	35.00	75.00	----
GALVANIZED EACH	10.00	13.00	16.00	20.00	25.00	30.00	44.00	70.00	----	----

FACED EXTRA HEAVY FLANGE UNIONS (No Packing).—Fig. 72.

SIZE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
DIAMETER OF FLANGES INCHES	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{4}$	$4\frac{3}{4}$	$5\frac{3}{4}$	6	$6\frac{3}{4}$
NUMBER OF BOLTS IN EACH	4	4	4	4	5	5	6
EACH . . . . .	.65	.70	.85	1.15	1.50	1.75	2.25

SIZE INCHES	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
DIAMETER OF FLANGES INCHES	$12\frac{3}{4}$	8	$8\frac{3}{4}$	$9\frac{3}{4}$	$10\frac{3}{4}$	12	$13\frac{1}{4}$
NUMBER OF BOLTS IN EACH	6	7	8	8	9	10	10
EACH	2.15	3.15	4.50	5.00	6.50	8.00	10.00

For a working pressure of 200 pounds.



FIG. 73. OFFSET.

OFFSETS.—Fig. 73.

SIZE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
TO OFFSET 4 INCHES . . . . .	.45	.70	1.00	1.20	1.80	3.00	4.00	5.00	6.00	8.00	10.00
TO OFFSET 6 INCHES . . . . .	.67	1.05	1.50	1.80	2.70	4.50	6.00	7.50	9.00	12.00	15.00
TO OFFSET 8 INCHES . . . . .	.90	1.40	2.00	2.40	3.60	6.00	8.00	10.00	12.00	16.00	20.00

LIST OF STANDARD SIZES OF CAST-IRON FITTINGS.

Sizes differing from Standard Sizes, if furnished, are to be charged at 10 per cent gross discount higher than Standard Sizes.

ELBOWS.

STRAIGHT SIZES - - -	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
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ELBOWS—REDUCING SIZES.

$\frac{1}{2} \times \frac{3}{8}$	$1\frac{1}{4} \times \frac{3}{4}$	$1\frac{1}{2} \times \frac{3}{4}$	$2\frac{1}{2} \times 2$	$3\frac{1}{2} \times 3$	$4\frac{1}{2} \times 4$
$\frac{3}{4} \times \frac{1}{2}$	$1\frac{1}{4} \times \frac{1}{2}$	$2 \times 1\frac{1}{2}$	$2\frac{1}{2} \times 1\frac{1}{2}$	$4 \times 3\frac{1}{2}$	5×4
$1 \times \frac{3}{4}$	$1\frac{1}{2} \times 1\frac{1}{4}$	$2 \times 1\frac{1}{4}$	$3 \times 2\frac{1}{2}$	4×3	6×5
$1 \times \frac{1}{2}$	$1\frac{1}{2} \times 1$	2×1	3×2	$4 \times 2\frac{1}{2}$	8×6
$1\frac{1}{4} \times 1$					

45° ELBOWS.

STRAIGHT SIZES - - -	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12	14
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PITCHED ELBOWS.

STRAIGHT SIZES - - -	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
REDUCING SIZES - - -	$1 \times \frac{3}{4}$	$1\frac{1}{4} \times 1$	$1\frac{1}{2} \times 1\frac{1}{4}$	$2 \times 1\frac{1}{2}$	$2\frac{1}{2} \times 2$	----

RIGHT AND LEFT ELBOWS.

STRAIGHT SIZES - - -	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
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REDUCERS.

$2\frac{1}{2} \times 2$	$3\frac{1}{2} \times 3$	$4 \times 2\frac{1}{2}$	5×4	6×4	8×6
$2\frac{1}{2} \times 1\frac{1}{2}$	$3\frac{1}{2} \times 2\frac{1}{2}$	4×2	5×3	6×3	10×8
$3 \times 2\frac{1}{2}$	$4 \times 3\frac{1}{2}$	$4\frac{1}{2} \times 4$	6×5	7×6	12×10
3×2	4×3				

TEES.

STRAIGHT SIZES - - -	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
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LIST OF STANDARD SIZES OF CAST-IRON FITTINGS.

TEES—REDUCING ON OUTLET.

Tees which reduce on the outlet, thus: $2 \frac{1}{2} \frac{1}{4}$ are read, $2 \times 1 \frac{1}{4}$.

$\frac{1}{2} \times \frac{3}{4}$	$2 \times 1 \frac{1}{4}$	$3 \times \frac{3}{4}$	$4 \times \frac{3}{4}$	6×4	$8 \times 2 \frac{1}{2}$
$\frac{3}{4} \times \frac{1}{2}$	2×1	$3 \frac{1}{2} \times 3$	$4 \frac{1}{2} \times 4$	$6 \times 3 \frac{1}{2}$	8×2
$\frac{3}{4} \times \frac{3}{4}$	$2 \times \frac{3}{4}$	$3 \frac{1}{2} \times 2 \frac{1}{2}$	$4 \frac{1}{2} \times 3 \frac{1}{2}$	6×3	9×5
$1 \times \frac{3}{4}$	$2 \times \frac{1}{2}$	$3 \frac{1}{2} \times 2$	$4 \frac{1}{2} \times 3$	$6 \times 2 \frac{1}{2}$	10×8
$1 \times \frac{1}{2}$	$2 \frac{1}{2} \times 2$	$3 \frac{1}{2} \times 1 \frac{1}{2}$	$4 \frac{1}{2} \times 2 \frac{1}{2}$	6×2	10×6
$1 \times \frac{3}{8}$	$2 \frac{1}{2} \times 1 \frac{1}{2}$	$3 \frac{1}{2} \times 1 \frac{1}{4}$	$4 \frac{1}{2} \times 2$	7×6	10×5
$1 \frac{1}{4} \times 1$	$2 \frac{1}{2} \times 1 \frac{1}{4}$	$3 \frac{1}{2} \times 1$	5×4	7×5	10×4
$1 \frac{1}{4} \times \frac{3}{4}$	$2 \frac{1}{2} \times 1$	$4 \times 3 \frac{1}{2}$	$5 \times 3 \frac{1}{2}$	7×4	12×10
$1 \frac{1}{4} \times \frac{1}{2}$	$2 \frac{1}{2} \times \frac{3}{4}$	4×3	5×3	7×3	12×8
$1 \frac{1}{2} \times 1 \frac{1}{4}$	$3 \times 2 \frac{1}{2}$	$4 \times 2 \frac{1}{2}$	$5 \times 2 \frac{1}{2}$	8×6	12×6
$1 \frac{1}{2} \times 1$	3×2	4×2	5×2	8×5	14×8
$1 \frac{1}{2} \times \frac{3}{4}$	$3 \times 1 \frac{1}{2}$	$4 \times 1 \frac{1}{2}$	$5 \times 1 \frac{1}{2}$	8×4	14×6
$1 \frac{1}{2} \times \frac{1}{2}$	$3 \times 1 \frac{1}{4}$	$4 \times 1 \frac{1}{4}$	$5 \times 1 \frac{1}{4}$	$8 \times 3 \frac{1}{2}$	-----
$2 \times 1 \frac{1}{2}$	3×1	4×1	6×5	8×3	-----

TEES—REDUCING ON RUN.

Tees reducing on run, thus: $2 \frac{1}{2} \frac{1}{4} 1 \frac{1}{2}$ are read, $2 \times 1 \frac{1}{2} \times 1 \frac{1}{4}$.

$\frac{1}{2} \times \frac{3}{4} \times \frac{1}{2}$	$1 \frac{1}{4} \times \frac{1}{2} \times 1 \frac{1}{2}$	$2 \times 1 \frac{1}{4} \times 1 \frac{1}{2}$	$3 \times 2 \frac{1}{2} \times 2$	$4 \times 3 \frac{1}{2} \times 2 \frac{1}{2}$	$5 \times 3 \times 4$
$\frac{1}{2} \times \frac{3}{4} \times \frac{3}{8}$	$1 \frac{1}{4} \times \frac{1}{2} \times 1 \frac{1}{4}$	$2 \times 1 \frac{1}{4} \times 1 \frac{1}{4}$	$3 \times 2 \frac{1}{2} \times 1 \frac{1}{2}$	$4 \times 3 \times 4$	$5 \times 3 \times 3$
$\frac{3}{4} \times \frac{1}{2} \times 1$	$1 \frac{1}{4} \times 1 \frac{1}{4} \times 2$	$2 \times 1 \frac{1}{4} \times 1$	$3 \times 2 \frac{1}{2} \times 1 \frac{1}{4}$	$4 \times 3 \times 3 \frac{1}{2}$	$5 \times 3 \times 2 \frac{1}{2}$
$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{4}$	$1 \frac{1}{2} \times 1 \times 2$	$2 \times 1 \frac{1}{4} \times \frac{3}{4}$	$3 \times 2 \frac{1}{2} \times 1$	$4 \times 3 \times 3$	$5 \times 3 \times 2$
$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$	$1 \frac{1}{2} \times \frac{3}{4} \times 2$	$2 \times 1 \times 2$	$3 \times 2 \times 3$	$4 \times 3 \times 2 \frac{1}{2}$	$5 \times 2 \frac{1}{2} \times 5$
$\frac{3}{4} \times \frac{3}{8} \times \frac{3}{4}$	$1 \frac{1}{2} \times 1 \frac{1}{4} \times 1 \frac{1}{2}$	$2 \times 1 \times 1 \frac{1}{2}$	$3 \times 2 \times 2 \frac{1}{2}$	$4 \times 3 \times 2$	$5 \times 2 \frac{1}{2} \times 4$
$\frac{3}{4} \times \frac{3}{8} \times \frac{3}{8}$	$1 \frac{1}{2} \times 1 \frac{1}{4} \times 1 \frac{1}{4}$	$2 \times 1 \times 1 \frac{1}{4}$	$3 \times 2 \times 2$	$4 \times 3 \times 1 \frac{1}{2}$	$5 \times 2 \frac{1}{2} \times 3$
$1 \times \frac{3}{4} \times 2$	$1 \frac{1}{2} \times 1 \frac{1}{4} \times 1$	$2 \times 1 \times 1$	$3 \times 2 \times 1 \frac{1}{2}$	$4 \times 3 \times 1 \frac{1}{4}$	$5 \times 2 \times 5$
$1 \times \frac{3}{4} \times 1 \frac{1}{2}$	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{3}{4}$	$2 \times 1 \times \frac{3}{4}$	$3 \times 2 \times 1 \frac{1}{4}$	$4 \times 3 \times 1$	$6 \times 5 \times 6$
$1 \times \frac{3}{4} \times 1 \frac{1}{4}$	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{1}{2}$	$2 \times \frac{3}{4} \times 2$	$3 \times 2 \times 1$	$4 \times 3 \times \frac{3}{4}$	$6 \times 5 \times 5$
$1 \times \frac{3}{4} \times 1$	$1 \frac{1}{2} \times 1 \times 1 \frac{1}{2}$	$2 \times \frac{3}{4} \times 1 \frac{1}{2}$	$3 \times 1 \frac{1}{2} \times 3$	$4 \times 2 \frac{1}{2} \times 4$	$6 \times 4 \times 6$
$1 \times \frac{3}{4} \times \frac{3}{4}$	$1 \frac{1}{2} \times 1 \times 1 \frac{1}{4}$	$2 \times \frac{1}{2} \times 2$	$3 \times 1 \frac{1}{2} \times 2 \frac{1}{2}$	$4 \times 2 \frac{1}{2} \times 3$	$6 \times 3 \times 6$
$1 \times \frac{3}{4} \times \frac{1}{2}$	$1 \frac{1}{2} \times 1 \times 1$	$2 \frac{1}{2} \times 2 \times 3$	$3 \times 1 \frac{1}{2} \times 2$	$4 \times 2 \frac{1}{2} \times 2 \frac{1}{2}$	$6 \times 2 \frac{1}{2} \times 6$
$1 \times \frac{1}{2} \times 1$	$1 \frac{1}{2} \times 1 \times \frac{1}{2}$	$2 \frac{1}{2} \times 2 \times 2 \frac{1}{2}$	$3 \times 1 \frac{1}{4} \times 3$	$4 \times 2 \frac{1}{2} \times 2$	$7 \times 6 \times 7$
$1 \times \frac{1}{2} \times \frac{3}{4}$	$1 \frac{1}{2} \times \frac{3}{4} \times 1 \frac{1}{2}$	$2 \frac{1}{2} \times 2 \times 2$	$3 \times 1 \times 3$	$4 \times 2 \times 4$	$7 \times 6 \times 6$
$1 \times \frac{1}{2} \times \frac{1}{2}$	$1 \frac{1}{2} \times \frac{3}{4} \times 1 \frac{1}{4}$	$2 \frac{1}{2} \times 2 \times 1 \frac{1}{2}$	$3 \frac{1}{2} \times 3 \times 3$	$4 \times 2 \times 3$	$7 \times 6 \times 5$
$1 \times \frac{3}{8} \times 1$	$1 \frac{1}{2} \times \frac{3}{4} \times 1$	$2 \frac{1}{2} \times 2 \times 1 \frac{1}{4}$	$3 \frac{1}{2} \times 3 \times 2 \frac{1}{2}$	$4 \times 2 \times 2 \frac{1}{2}$	$7 \times 5 \times 5$
$1 \frac{1}{4} \times 1 \times 2$	$1 \frac{1}{2} \times \frac{3}{4} \times \frac{3}{4}$	$2 \frac{1}{2} \times 2 \times 1$	$3 \frac{1}{2} \times 3 \times 2$	$4 \times 2 \times 2$	$8 \times 7 \times 6$
$1 \frac{1}{4} \times 1 \times 1 \frac{1}{2}$	$1 \frac{1}{2} \times \frac{1}{2} \times 1 \frac{1}{2}$	$2 \frac{1}{2} \times 1 \frac{1}{2} \times 2 \frac{1}{2}$	$3 \frac{1}{2} \times 3 \times 1 \frac{1}{2}$	$4 \times 2 \times 1 \frac{1}{2}$	$8 \times 6 \times 8$
$1 \frac{1}{4} \times 1 \times 1 \frac{1}{4}$	$1 \frac{1}{2} \times \frac{1}{2} \times 1 \frac{1}{4}$	$2 \frac{1}{2} \times 1 \frac{1}{2} \times 2$	$3 \frac{1}{2} \times 2 \frac{1}{2} \times 3$	$4 \times 1 \frac{1}{2} \times 4$	$8 \times 6 \times 7$
$1 \frac{1}{4} \times 1 \times 1$	$2 \times 1 \frac{1}{2} \times 2 \frac{1}{2}$	$2 \frac{1}{2} \times 1 \frac{1}{2} \times 1 \frac{1}{2}$	$3 \frac{1}{2} \times 2 \frac{1}{2} \times 2 \frac{1}{2}$	$4 \times 1 \frac{1}{4} \times 4$	$8 \times 6 \times 6$
$1 \frac{1}{4} \times 1 \times \frac{3}{4}$	$2 \times 1 \frac{1}{2} \times 2$	$2 \frac{1}{2} \times 1 \frac{1}{2} \times 1$	$3 \frac{1}{2} \times 2 \frac{1}{2} \times 2$	$4 \times 1 \times 4$	$8 \times 5 \times 8$
$1 \frac{1}{4} \times 1 \times \frac{1}{2}$	$2 \times 1 \frac{1}{2} \times 1 \frac{1}{2}$	$2 \frac{1}{2} \times 1 \frac{1}{4} \times 2 \frac{1}{2}$	$3 \frac{1}{2} \times 2 \times 3 \frac{1}{2}$	$5 \times 4 \times 5$	$8 \times 5 \times 5$
$1 \frac{1}{4} \times \frac{3}{4} \times 2$	$2 \times 1 \frac{1}{2} \times 1 \frac{1}{4}$	$2 \frac{1}{2} \times 1 \frac{1}{4} \times 2$	$3 \frac{1}{2} \times 1 \frac{1}{2} \times 3 \frac{1}{2}$	$5 \times 4 \times 4$	$8 \times 4 \times 8$
$1 \frac{1}{4} \times \frac{3}{4} \times 1 \frac{1}{2}$	$2 \times 1 \frac{1}{2} \times 1$	$2 \frac{1}{2} \times 1 \times 2 \frac{1}{2}$	$3 \frac{1}{2} \times 1 \frac{1}{4} \times 3 \frac{1}{2}$	$5 \times 4 \times 3$	$10 \times 8 \times 8$
$1 \frac{1}{4} \times \frac{3}{4} \times 1 \frac{1}{4}$	$2 \times 1 \frac{1}{2} \times \frac{3}{4}$	$2 \frac{1}{2} \times \frac{3}{4} \times 2 \frac{1}{2}$	$3 \frac{1}{2} \times 1 \times 3 \frac{1}{2}$	$5 \times 4 \times 2 \frac{1}{2}$	$12 \times 8 \times 10$
$1 \frac{1}{4} \times \frac{3}{4} \times 1$	$2 \times 1 \frac{1}{2} \times \frac{1}{2}$	$3 \times 2 \frac{1}{2} \times 3$	$4 \times 3 \frac{1}{2} \times 3 \frac{1}{2}$	$5 \times 4 \times 2$	$12 \times 8 \times 8$
$1 \frac{1}{4} \times \frac{3}{4} \times \frac{3}{4}$	$2 \times 1 \frac{1}{2} \times \frac{1}{4}$	$3 \times 2 \frac{1}{2} \times 2 \frac{1}{2}$	$4 \times 3 \frac{1}{2} \times 3$	$5 \times 3 \times 5$	-----

LIST OF STANDARD SIZES OF CAST-IRON FITTINGS.**TEES—BULL HEAD.**

Tees with both ends of run the same size, with the outlet larger, thus: $1 \overset{2}{\text{---}} 1$ are known as Bull Head, and are read, 1 x 2.

$\frac{3}{8}$ x $\frac{1}{2}$	$\frac{3}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x 2	2 x $2\frac{1}{2}$	$3\frac{1}{2}$ x 4	6 x 7
$\frac{1}{2}$ x 1	$\frac{3}{4}$ x 1	$1\frac{1}{4}$ x $1\frac{1}{2}$	$2\frac{1}{2}$ x 4	4 x 6	----
$\frac{1}{2}$ x $\frac{3}{4}$	1 x 2	$1\frac{1}{2}$ x $2\frac{1}{2}$	$2\frac{1}{2}$ x 3	4 x 5	----
$\frac{3}{4}$ x 2	1 x $1\frac{1}{2}$	$1\frac{1}{2}$ x 2	3 x 4	5 x 6	----
$\frac{3}{4}$ x $1\frac{1}{2}$	1 x $1\frac{1}{4}$	2 x 3	3 x $3\frac{1}{2}$	6 x 8	----

CROSSES.

STRAIGHT SIZES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
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CROSSES—REDUCING ON OUTLETS.

The outlets of a Cross are always the same size, and are indicated by the last figure.

Thus: A Cross $\frac{3}{4} \text{---} \overset{\frac{1}{2}}{\text{---}} \frac{3}{4}$ is called a $\frac{3}{4}$ x $\frac{1}{2}$ Cross.

$\frac{3}{4}$ x $\frac{1}{2}$	$1\frac{1}{2}$ x 1	$2\frac{1}{2}$ x 2	3 x $1\frac{1}{2}$	4 x 3	6 x 5
1 x $\frac{3}{4}$	$1\frac{1}{2}$ x $\frac{3}{4}$	$2\frac{1}{2}$ x $1\frac{1}{2}$	3 x $1\frac{1}{4}$	4 x $2\frac{1}{2}$	6 x 4
1 x $\frac{1}{2}$	$1\frac{1}{2}$ x $\frac{1}{2}$	$2\frac{1}{2}$ x $1\frac{1}{4}$	3 x 1	4 x 2	6 x 3
$1\frac{1}{4}$ x 1	2 x $1\frac{1}{2}$	$2\frac{1}{2}$ x 1	3 x $\frac{3}{4}$	5 x 4	6 x $2\frac{1}{2}$
$1\frac{1}{4}$ x $\frac{3}{4}$	2 x $1\frac{1}{4}$	$2\frac{1}{2}$ x $\frac{3}{4}$	$3\frac{1}{2}$ x 3	5 x 3	6 x 2
$1\frac{1}{4}$ x $\frac{1}{2}$	2 x 1	3 x $2\frac{1}{2}$	$3\frac{1}{2}$ x $2\frac{1}{2}$	5 x $2\frac{1}{2}$	----
$1\frac{1}{2}$ x $1\frac{1}{4}$	2 x $\frac{3}{4}$	3 x 2	4 x $3\frac{1}{2}$	5 x 2	----

CROSSES—REDUCING ON RUN.

A Cross reducing on the run, thus: $1\frac{1}{2} \text{---} \overset{1}{\text{---}} 1\frac{1}{4}$ is called a $1\frac{1}{2}$ x $1\frac{1}{4}$ x 1 Cross.

REDUCING ON RUN	$1\frac{1}{2}$ x $1\frac{1}{4}$ x 1	$2\frac{1}{2}$ x 2 x $1\frac{1}{2}$
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RETURN BENDS.

CLOSE PATTERN	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
OPEN PATTERN	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3

OFFSETS—To Offset 4, 6, and 8 Inches.

SIZES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
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LIST OF STANDARD SIZES OF CAST-IRON FITTINGS.

BUSHINGS.

[NOTE.—Bushings reducing one size only up to and including $2\frac{1}{2}$ inches are malleable, and will be found, therefore, listed among the malleable fittings.]

$\frac{1}{2}$ x $\frac{1}{4}$	2 x 1	$3\frac{1}{2}$ x $2\frac{1}{2}$	$4\frac{1}{2}$ x $3\frac{1}{2}$	6 x 3	8 x 5
$\frac{3}{4}$ x $\frac{3}{8}$	2 x $\frac{3}{4}$	$3\frac{1}{2}$ x 2	$4\frac{1}{2}$ x 3	6 x $2\frac{1}{2}$	8 x 4
$\frac{3}{4}$ x $\frac{1}{2}$	2 x $\frac{1}{2}$	$3\frac{1}{2}$ x $1\frac{1}{2}$	$4\frac{1}{2}$ x $2\frac{1}{2}$	6 x 2	8 x 3
1 x $\frac{1}{2}$	$2\frac{1}{2}$ x $1\frac{1}{2}$	$3\frac{1}{2}$ x $1\frac{1}{4}$	5 x $4\frac{1}{2}$	7 x 6	9 x 8
1 x $\frac{3}{8}$	$2\frac{1}{2}$ x $1\frac{1}{4}$	$3\frac{1}{2}$ x 1	5 x 4	7 x 5	9 x 7
1 x $\frac{1}{4}$	$2\frac{1}{2}$ x 1	4 x $3\frac{1}{2}$	5 x $3\frac{1}{2}$	7 x $4\frac{1}{2}$	9 x 6
$1\frac{1}{4}$ x $\frac{3}{4}$	$2\frac{1}{2}$ x $\frac{3}{4}$	4 x 3	5 x 3	7 x 4	10 x 8
$1\frac{1}{4}$ x $\frac{1}{2}$	3 x $2\frac{1}{2}$	4 x $2\frac{1}{2}$	5 x $2\frac{1}{2}$	7 x $3\frac{1}{2}$	10 x 6
$1\frac{1}{4}$ x $\frac{3}{8}$	3 x 2	4 x 2	5 x 2	7 x 3	12 x 10
$1\frac{1}{2}$ x 1	3 x $1\frac{1}{2}$	4 x $1\frac{1}{2}$	6 x 5	7 x $2\frac{1}{2}$	12 x 8
$1\frac{1}{2}$ x $\frac{3}{4}$	3 x $1\frac{1}{4}$	4 x $1\frac{1}{4}$	6 x $4\frac{1}{2}$	7 x 2	12 x 6
$1\frac{1}{2}$ x $\frac{1}{2}$	3 x 1	4 x 1	6 x 4	8 x 7	-----
2 x $1\frac{1}{4}$	$3\frac{1}{2}$ x 3	$4\frac{1}{2}$ x 4	6 x $3\frac{1}{2}$	8 x 6	-----

CAPS.

2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
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PLUGS.

$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
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LOCKNUTS.

2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
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Y BRANCHES.—Reducing Sizes to Order.

$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8	9	10
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FLANGE UNIONS.

$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
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CAST-IRON FITTINGS.

FIG. 74. TEE.



FIG. 75. DOUBLE BRANCH ELBOW.

LONG TURN TEES AND DOUBLE BRANCH ELBOWS.—Figs. 74 and 75.

SIZE INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
EACH . . . . .	.38	.52	.68	.90	1.50	2.25	3.00	3.75	5.25
SIZE INCHES	5	6	7	8	9	10	12	14	----
EACH	6.75	9.75	15.00	21.00	25.00	30.00	45.00	67.00	----

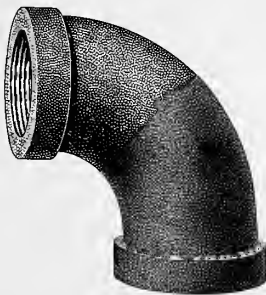


FIG. 76. ELBOW.

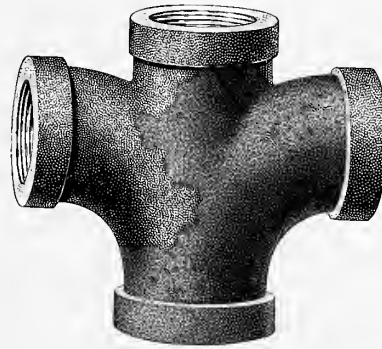


FIG. 77. CROSS.

LONG TURN ELBOWS.—Fig. 76.

SIZE INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
EACH . . . . .	.25	.35	.45	.60	1.00	1.50	2.00	2.50	3.50
SIZE INCHES	5	6	7	8	9	10	12	14	----
EACH	4.50	6.50	10.00	14.00	17.00	20.00	30.00	45.00	----

LONG TURN CROSSES.—Fig. 77.

SIZE INCHES	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	7	8	9	10	12
EACH . . . . .	.90	1.20	2.00	3.00	4.00	5.00	9.00	13.00	20.00	28.00	34.00	40.00	60.00

The above fittings will be furnished with one or more ends flanged when specially ordered.
Prices on application.

CAST-IRON FITTINGS.

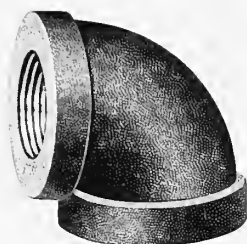


FIG. 78. ELBOW.



FIG. 79. SOLID PLUG.



FIG. 80. 45° ELBOW.

EXTRA HEAVY FITTINGS.—Figs. 78, 79, and 80.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
ELBOWS	EACH	.30	.35	.45	.60	.75	1.25	2.00	2.75	3.50	4.25	5.50	8.00	12.00	17.00	28.00	40.00
ELBOWS, REDUCING	EACH	.40	.45	.55	.75	.95	1.55	2.50	3.40	4.40	5.30	6.80	10.00	15.00	21.00	35.00	50.00
ELBOWS, 45	EACH	.40	.45	.55	.70	.90	1.50	2.50	3.50	4.50	5.50	6.75	9.75	14.50	21.00	34.00	48.00
SOLID PLUGS	EACH	.05	.06	.10	.13	.20	.35	.50	.75	.85	1.35	1.75	2.40	3.75	5.50	7.50	10.00

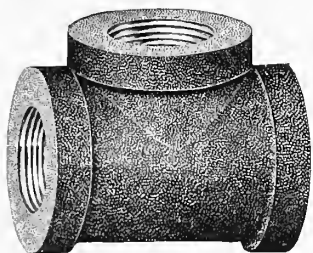


FIG. 81. TEE.

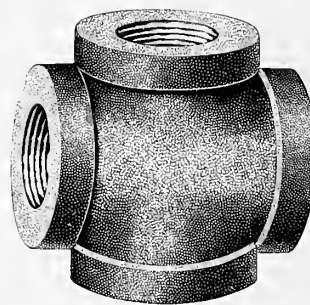


FIG. 82. CROSS.

EXTRA HEAVY FITTINGS.—Figs. 81 and 82.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
TEES	EACH	.50	.55	.70	.90	1.15	1.80	3.00	4.25	5.50	6.75	8.25	12.00	18.00	25.00	42.00	60.00
TEES, REDUCING	EACH	.65	.70	.90	1.15	1.40	2.25	3.75	5.30	6.85	8.50	10.25	15.00	22.50	31.00	52.00	75.00
CROSSES	EACH	.65	.70	.90	1.20	1.50	2.50	4.00	5.50	7.00	8.50	11.00	16.00	24.00	34.00	56.00	80.00
CROSSES, REDUCING	EACH	.85	.90	1.15	1.50	1.85	3.15	5.00	6.85	8.75	10.00	13.75	20.00	30.00	42.00	70.00	100.00

For a working pressure of 200 pounds.

Our Extra Heavy Fittings are made with a longer radius than the ordinary fittings, thus reducing friction. We do not recommend the use of screwed fittings above 10 inches. For larger sizes flanged are more suitable.

CAST-IRON CAR HEATER FITTINGS.**EXTRA HEAVY.**

FIG. 83. ELBOW.

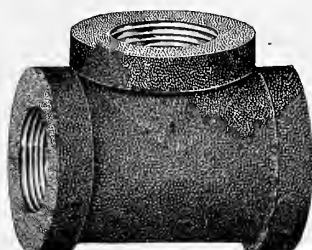


FIG. 84. TEE.

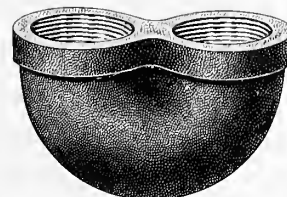


FIG. 85. RETURN BEND.

ELBOWS.—Fig. 83.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2} \times 1\frac{1}{4}$	$1\frac{1}{2}$	2
RIGHT HAND EACH	.22	.25	.27	.30	.45	.45	.55
RIGHT AND LEFT EACH	.22	.25	.27	.30	.45	.45	.55

TEES.—Fig. 84.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{4} \times \frac{3}{4} \times 1\frac{1}{4}$	$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{4}$	$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{4}$	2
RIGHT HAND EACH	.30	.35	.40	.45	.45	.45	.45	.65	.85

RETURN BENDS.—Fig. 85.

SIZE INCHES	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
DISTANCE BETWEEN CENTERS INCHES	$2\frac{3}{8}$	3	4	5	$7\frac{1}{2}$	8
EACH . . . . .	.45	.50	.60	.70	1.10	1.10

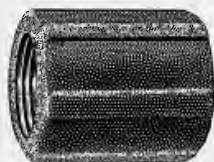


FIG. 86. CAST IRON COUPLING.

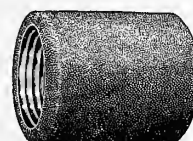


FIG. 87. WROUGHT IRON COUPLING.

CAST IRON COUPLINGS.—Fig. 86.

SIZE INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
RIGHT HAND EACH	.25	.30	.45	.55
RIGHT AND LEFT EACH	.35	.40	.55	.65

WROUGHT IRON COUPLINGS.—Fig. 87.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
ACTUAL OUTSIDE DIAMETER INCHES	1.09	1.31	1.63	2.13	2.31	2.78
LENGTH OF COUPLING INCHES	1.63	1.88	2.13	2.13	2.63	2.94
RIGHT HAND EACH	.10	.15	.20	.30	.40	.50
RIGHT AND LEFT EACH	.15	.22	.30	.40	.50	.60

CAST-IRON AMMONIA FITTINGS.

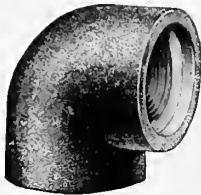


FIG. 88. ELBOW, WITH RECESS.



FIG. 89. JAM NUT.



FIG. 90. RETURN BEND, WITH RECESS.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
ELBOWS, WITH RECESS FOR JAM NUTS	EACH	.25	.25	.30	.45	.65	.80	1.00	1.25	2.50
ELBOWS, WITH PLAIN ENDS	EACH	.20	.20	.25	.40	.60	.70	.90	1.15	2.25
TEES, WITH RECESS FOR JAM NUTS	EACH	.35	.35	.45	.70	1.00	1.25	1.50	1.90	3.75
TEES, WITH PLAIN ENDS	EACH	.30	.30	.50	.60	.90	1.15	1.40	1.80	3.50
RETURN BENDS, WITH RECESS FOR JAM NUTS	EACH	----	----	----	.80	.90	1.10	1.40	1.60	3.00
RETURN BENDS, WITH PLAIN ENDS	EACH	----	----	----	.75	.85	1.00	1.30	1.50	2.75
COUPLINGS, WITH RECESS FOR JAM NUTS	EACH	.35	.35	.45	.60	.75	1.00	1.25	1.50	3.00
JAM NUTS	EACH	.07	.08	.10	.12	.15	.18	.20	.30	.50
JAM NUTS, RUBBERS	EACH	.04	.04	.05	.05	.05	.07	.08	.10	.15
AMMONIA VALVES	EACH	8.00	8.00	9.00	12.00	13.00	15.00	17.00	18.00	24.00
GALVANIZED ELBOWS, WITH RECESS FOR JAM NUTS	EACH	.35	.35	.45	.60	.85	1.00	1.25	1.50	3.00
GALVANIZED ELBOWS, WITH PLAIN ENDS	EACH	.30	.30	.40	.55	.80	.90	1.15	1.40	2.75
GALVANIZED TEES, WITH RECESS FOR JAM NUTS	EACH	.45	.45	.65	.90	1.25	1.50	1.85	2.25	4.50
GALVANIZED TEES, WITH PLAIN ENDS	EACH	.40	.40	.60	.80	1.15	1.40	1.75	2.15	4.25
GALVANIZED RETURN BENDS, WITH RECESS FOR JAM NUTS	EACH	----	----	----	1.20	1.35	1.50	2.10	2.40	4.00
GALVANIZED RETURN BENDS, WITH PLAIN ENDS	EACH	----	----	----	1.15	1.25	1.40	2.00	2.30	3.75
GALVANIZED COUPLINGS, WITH RECESS FOR JAM NUTS	EACH	.50	.50	.60	.80	1.00	1.25	1.60	2.00	3.50

BASE FITTINGS.



FIG. 91. ELBOW, SCREWED.

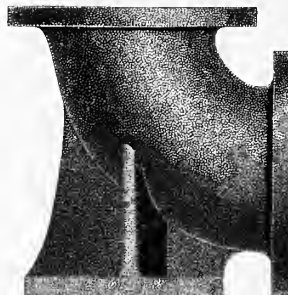


FIG. 92. ELBOW, FLANGED.

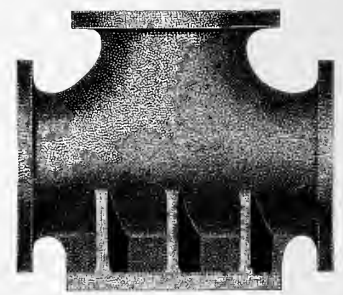


FIG. 93. TEE, FLANGED.

We make Base Fittings, as shown, for use at the bottom of pipe columns. Can be furnished either with screwed or flanged ends.

Prices on application.

CAST-IRON FITTINGS.



FIG. 94. FLANGED ELBOW.

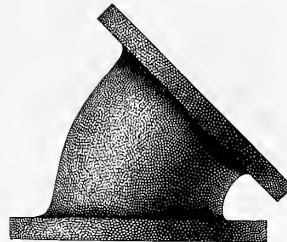


FIG. 95. FLANGED 45° ELBOW.

ELBOWS.—Fig. 94.

SIZE INCHES	2	3	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
CENTER TO FACE . . .	4½	5½	6	6½	7	7½	8½	9½	10¾	11½	12¾	13¼	14½	15¼	16½	18
DIAMETER OF FLANGES . . .	6½	8	9	9½	10	11	13	14	15	16	19	21	22	24	25	27
WITH FLANGES FACED . . .	4.00	5.00	5.50	6.50	7.50	9.00	12.00	16.00	20.00	26.00	35.00	50.00	60.00	70.00	90.00	110.00
WITH FLANGES FACED & DRILLED	4.75	5.75	6.50	7.50	8.50	10.50	14.00	18.00	22.50	28.50	38.00	55.00	65.00	75.00	100.00	120.00

45° ELBOWS.—Fig. 95.

SIZE INCHES	2	3	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
CENTER TO FACE . . .	2½	3	3½	3¾	3¾	4¼	5¼	5¼	5¾	5¾	6½	7¼	7½	7¾	7¾	9
DIAMETER OF FLANGES . . .	6½	8	9	9½	10	11	13	14	15	16	19	21	22	24	25	27
WITH FLANGES FACED . . .	4.50	5.50	6.50	7.50	9.00	11.00	14.00	19.00	24.00	30.00	40.00	55.00	65.00	80.00	100.00	120.00
WITH FLANGES FACED & DRILLED	5.25	6.25	7.50	8.50	10.00	12.50	16.00	21.00	26.50	32.50	43.00	60.00	70.00	85.00	110.00	130.00

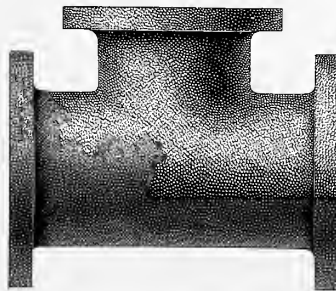


FIG. 96. FLANGED TEE.

TEES.—Fig. 96.

SIZE INCHES	2	3	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
CENTER TO FACE . . .	4½	5½	6	6½	7	7½	8½	9½	10¾	11½	12¾	13¼	14½	15¼	16½	18
FACE TO FACE . . .	9	11	12	12½	14	15	17	19	21½	23	25½	26½	29	30½	33	36
DIAMETER OF FLANGES . . .	6½	8	9	9½	10	11	13	14	15	16	19	21	22	24	25	27
WITH FLANGES FACED . . .	6.00	7.00	8.00	9.50	11.00	15.00	20.00	26.00	32.00	38.00	50.00	75.00	90.00	105.00	135.00	165.00
WITH FLANGES FACED & DRILLED	7.00	8.00	9.50	11.00	12.50	17.00	23.00	29.00	36.00	42.00	54.00	83.00	98.00	113.00	150.00	180.00

When Tees are made reducing on the run, the center to center and face to face measurements are the same as given in the above table; but when the outlet is reduced these measurements vary with the size of the outlet.

In ordering flanged fittings, customers must specify if they are wanted with flanges drilled.

Flanged fittings will always be furnished faced only unless otherwise ordered.

CAST-IRON FITTINGS.

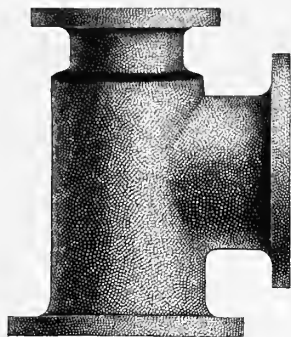


FIG. 97. FLANGED REDUCING TEE.

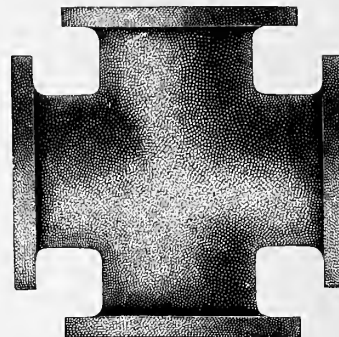


FIG. 98. FLANGED CROSS.

REDUCING TEES.—Fig. 97.

SIZE INCHES	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
WITH FLANGES FACED	9.00	11.00	12.50	17.00	23.00	29.50	36.50	44.00	57.00	85.00	100.00	120.00	150.00	185.00
WITH FLANGES FACED AND DRILLED	10.50	12.50	14.00	19.00	26.00	32.50	40.50	48.00	61.00	93.00	108.00	128.00	165.00	200.00

When Tees are made reducing on the run, the center to center and face to face measurements are the same as given in the above table; but when the outlet is reduced, these measurements vary with the size of the outlet.

CROSSES.—Fig. 98.

SIZE INCHES	2	3	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
FACE TO FACE	9	11	12	12½	14	15	17	19	21½	23	25½	26½	29	30½	33	36
DIAMETER OF FLANGES	6½	8	9	9½	10	11	13	14	15	16	19	21	22	24	25	27
WITH FLANGES FACED	8.00	10.00	11.00	13.00	15.00	18.00	25.00	32.00	40.00	50.00	65.00	95.00	115.00	135.00	175.00	210.00
FLANGES FACED AND DRILLED	9.50	11.50	13.00	15.00	17.00	21.00	29.00	36.00	45.00	55.00	72.00	105.00	125.00	145.00	195.00	230.00

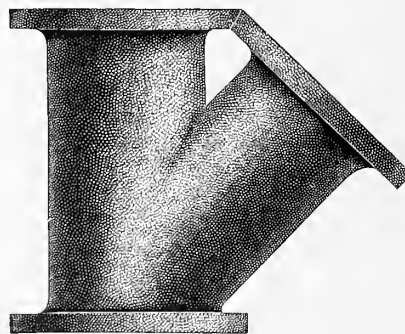


FIG. 99. FLANGED Y BRANCH.

Y BRANCHES.—Fig. 99.

SIZE INCHES	4	5	6	7	8	9	10	12	14	15	16	18
FACE TO FACE	12	14	15½	18½	19¾	22½	24	27	28½	31½	32	35
DIAMETER OF FLANGES	9	10	11	13	14	15	16	19	21	22	24	25
WITH FLANGES FACED	11.00	15.00	18.00	25.00	32.00	40.00	50.00	65.00	95.00	115.00	135.00	175.00
WITH FLANGES FACED AND DRILLED	13.00	17.00	21.00	29.00	36.00	45.00	55.00	72.00	105.00	125.00	145.00	195.00

CAST-IRON FITTINGS.

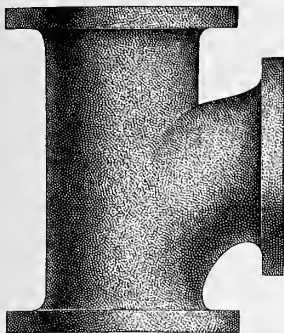


FIG. 100. FLANGED LONG TURN TEE.

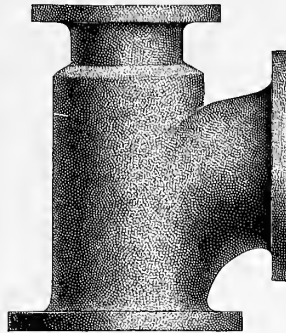


FIG. 101. FLANGED LONG TURN REDUCING TEE.

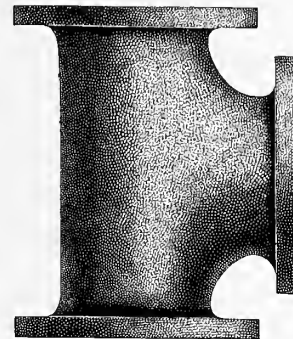


FIG. 102. FLANGED LONG TURN DOUBLE TEE.

LONG TURN TEES.—Fig. 100.

SIZE - - - - - INCHES	2	3	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
CENTER TO FACE - - -	4½	5½	6	6½	7	7½	8½	9½	10¾	11½	12¾	13½	14½	15½	16½	18
FACE TO FACE - - - -	9	11	12	12½	14	15	17	19	21½	23	25½	26½	29	30½	33	36
DIAMETER OF FLANGES	6½	8	9	9½	10	11	13	14	15	16	19	21	22	24	25	27
WITH FLANGES FACED	7.00	8.00	9.50	11.00	12.50	17.00	23.00	29.50	36.50	44.00	57.00	85.00	100.00	120.00	150.00	185.00
WITH FLANGES FACED & DRILLED	8.00	9.00	10.50	12.50	14.00	19.00	26.00	32.50	40.50	48.00	61.00	93.00	108.00	128.00	165.00	200.00

LONG TURN REDUCING TEES.—Fig. 101.

SIZE - - - - - INCHES	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
WITH FLANGES FACED - - - -	10.50	12.00	14.00	19.00	25.50	33.00	41.00	49.00	63.00	94.00	110.00	132.00	170.00	205.00
WITH FLANGES FACED & DRILLED	12.00	13.50	15.50	21.00	28.50	36.00	45.00	53.00	67.00	102.00	118.00	140.00	185.00	220.00

LONG TURN DOUBLE TEES.—Fig. 102.

SIZE - - - - - INCHES	4	5	6	7	8	9	10	12	14	15	16	18
CENTER TO FACE - - - - -	6	7	7½	8½	9½	10¾	11½	12¾	13½	14½	15½	16½
FACE TO FACE - - - - -	12	14	15	17	19	21½	23	25½	26½	29	30½	33
DIAMETER OF FLANGES - - - -	9	10	11	13	14	15	16	19	21	22	24	25
WITH FLANGES FACED - - - -	9.00	12.50	17.00	23.00	29.50	36.50	44.00	57.00	85.00	100.00	120.00	150.00
WITH FLANGES FACED & DRILLED	10.50	14.00	19.00	26.00	32.50	40.50	48.00	61.00	93.00	108.00	128.00	165.00

LONG TURN DOUBLE TEES, REDUCING.

SIZE - - - - - INCHES	4	5	6	7	8	9	10	12	14	15	16	18
WITH FLANGES FACED - - - -	10.00	14.00	19.00	25.50	33.00	41.00	49.00	63.00	94.00	110.00	132.00	170.00
WITH FLANGES FACED & DRILLED	11.50	15.50	21.00	28.50	36.00	45.00	53.00	67.00	102.00	118.00	140.00	185.00

CAST-IRON FITTINGS.

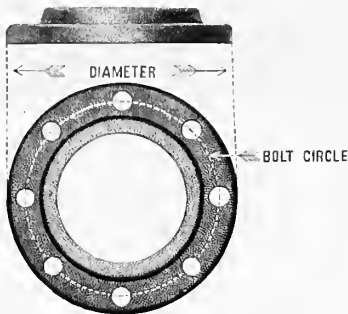


FIG. 103. FLANGE FACED AND DRILLED.



FIG. 104. ECCENTRIC FLANGE.



FIG. 105. BLIND FLANGE.

STANDARD FLANGES.

PROPER TEMPLATE FOR DRILLING OUR FLANGED FITTINGS AND PRICE LIST OF FLANGES TO MATCH.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	9	10	12	14	15	16	18	20
DIAMETER FLANGES	INCHES	6½	7	8	8½	9	9½	10	11	13	14	15	16	19	21	22	24	25	27
BOLT HOLE CIRCLE	INCHES	5	5½	6½	6¾	7¼	7¾	8¼	9¼	11	12	13	14¼	17	18½	19½	21½	22½	24¾
NO. OF BOLT HOLES		4	4	4	4	8	8	8	8	12	12	12	12	16	16	16	20	20	20
SIZE OF BOLTS	INCHES	¾	¾	¾	¾	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½
FLANGES FACED	EACH	1.70	1.80	1.90	1.20	1.60	1.75	2.20	2.60	3.50	4.00	6.00	7.00	9.00	12.50	16.00	20.00	27.50	30.00
FLANGES FACED AND DRILLED	EACH	1.00	1.10	1.30	1.50	2.00	2.20	2.70	3.20	4.25	4.75	6.75	7.75	11.00	14.50	19.00	23.00	32.50	35.00
ECCENTRIC FLANGES FACED	EACH	--	--	2.00	2.40	3.20	3.50	4.40	5.20	7.00	8.00	11.00	12.00	15.00	19.00	24.00	30.00	33.00	36.00
ECCENTRIC FLANGES FACED AND DRILLED	EACH	--	--	2.30	2.70	3.80	3.95	4.90	5.80	7.75	8.75	11.75	12.75	17.00	21.00	27.00	33.00	36.00	39.00

All the flanges on our Flanged Fittings are drilled in multiples of four, so that fittings may be made to face in any quarter.

Blind Flanges from 2 x 6½ to 16 x 24, inclusive, 25 per cent net higher than above list.



FIG. 106. SQUARE HEAD BOLT.



FIG. 107. HEXAGON HEAD BOLT.

MACHINE BOLTS, WITH SQUARE HEADS AND NUTS.—Fig. 106.

PRICES PER HUNDRED.

DIAMETER.	¼	5/16	¾	7/16	½	9/16 and 5/8	¾	1	1
Length.									
1½	2.80	3.20	3.60	4.60	6.00	9.00	12.70	18.80	27.50
2	2.90	3.35	3.80	4.90	6.35	9.55	13.45	19.80	28.80
2½	3.00	3.50	4.00	5.20	6.70	10.10	14.20	20.80	30.10
3	3.10	3.65	4.20	5.50	7.05	10.65	14.95	21.80	31.40
3½	3.20	3.80	4.40	5.80	7.40	11.20	15.70	22.80	32.70
4	3.30	3.95	4.60	6.10	7.75	11.75	16.45	23.80	34.00
4½	3.40	4.10	4.80	6.40	8.10	12.30	17.20	24.80	35.30
5	3.50	4.25	5.00	6.70	8.45	12.85	17.95	25.80	36.60
5½	3.60	4.40	5.20	7.00	8.80	13.40	18.70	26.80	37.90
6	3.70	4.55	5.40	7.30	9.15	13.95	19.45	27.80	39.20
6½	3.80	4.70	5.60	7.60	9.50	14.50	20.20	28.80	40.50
7	3.90	4.85	5.80	7.90	9.85	15.05	20.95	29.80	41.80
7½	4.00	5.00	6.00	8.20	10.20	15.60	21.70	30.80	43.10
8	4.10	5.15	6.20	8.50	10.60	16.20	22.50	31.80	44.40

Bolts with Hexagon Heads or Hexagon Nuts, Fig. 107, 10 per cent extra. If both Hexagon Heads and Hexagon Nuts, 20 per cent extra.

BRANCH TEES FOR CIRCULATION.

FIG. 108-110.



FIG. 109-111.

BRANCHES ONE INCH.—Figs. 108 and 109.**SMALL PATTERN, INSIDE DIAMETER $1\frac{1}{4}$ INCHES. CENTER TO CENTER $2\frac{1}{2}$ INCHES.**

NUMBER OF BRANCHES - - - -	2	3	4	5	6	7	8	9
1-INCH INLETS - - - - EACH	.85	.95	1.00	1.10	1.30	1.55	1.80	2.05
$1\frac{1}{4}$ -INCH INLETS - - - - EACH	1.10	1.20	1.25	1.35	1.55	1.80	2.05	2.30

BRANCHES ONE INCH.—Figs. 110 and 111.**LARGE PATTERN, INSIDE DIAMETER $2\frac{1}{4}$ INCHES. CENTER TO CENTER $2\frac{1}{2}$ INCHES.**

NUMBER OF BRANCHES - - - -	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1-INCH INLETS - - - - EACH	.90	1.00	1.20	1.40	1.70	2.15	2.40	2.80	3.30	4.20	4.75	5.50	6.25	7.00	7.75
$1\frac{1}{4}$ -INCH INLETS - - - - EACH	1.15	1.25	1.45	1.65	1.95	2.40	2.65	3.05	3.55	4.45	5.00	5.75	6.50	7.25	8.00
$1\frac{1}{2}$ -INCH INLETS - - - - EACH	1.30	1.40	1.60	1.80	2.10	2.55	2.80	3.20	3.70	4.60	5.15	5.90	6.65	7.40	8.15
2-INCH INLETS - - - - EACH	1.55	1.65	1.85	2.05	2.35	2.80	3.05	3.45	3.95	4.85	5.40	6.15	6.90	7.65	8.40



FIG. 112.



FIG. 113.

BRANCHES ONE AND ONE-QUARTER INCH.—Figs. 112 and 113.**LARGE PATTERN, INSIDE DIAMETER $2\frac{1}{2}$ INCHES. CENTER TO CENTER 3 INCHES.**

NUMBER OF BRANCHES - - - -	3	4	5	6	7	8	9	10	12	14	16
$1\frac{1}{4}$ -INCH INLETS - - - - EACH	1.55	1.90	2.30	2.80	3.30	3.80	4.40	5.00	6.00	7.25	8.70
$1\frac{1}{2}$ -INCH INLETS - - - - EACH	1.80	2.15	2.55	3.05	3.55	4.05	4.60	5.25	6.25	7.50	9.00
2-INCH INLETS - - - - EACH	1.95	2.30	2.70	3.20	3.70	4.20	4.80	5.40	6.40	7.65	9.15
$2\frac{1}{2}$ -INCH INLETS - - - - EACH	2.20	2.55	2.95	3.45	3.95	4.45	5.00	5.65	6.65	7.90	9.40



FIG. 114.



FIG. 115.

BRANCHES ONE AND ONE-HALF INCH.—Figs. 114 and 115.**LARGE PATTERN, INSIDE DIAMETER $2\frac{3}{4}$ INCHES. CENTER TO CENTER $3\frac{1}{2}$ INCHES.**

NUMBER OF BRANCHES - - - -	3	4	5	6	7	8	10
$1\frac{1}{2}$ -INCH INLETS - - - - EACH	3.00	3.75	4.50	5.30	6.20	6.80	9.10
2-INCH INLETS - - - - EACH	3.25	4.00	4.75	5.55	6.45	7.05	9.35
$2\frac{1}{2}$ -INCH INLETS - - - - EACH	3.40	4.15	4.90	5.70	6.60	7.20	9.50
3-INCH INLETS - - - - EACH	3.75	4.50	5.25	6.05	6.95	7.55	9.85

All openings in Branch Tees for Circulation are tapped Right hand. Inlets and Outlets same size as Branches, unless otherwise ordered.

BRANCH TEES FOR CIRCULATION.

FIG. 116.



FIG. 117.

BRANCHES TWO INCH.—Figs. 116 and 117.**LARGE PATTERN, INSIDE DIAMETER 3¼ INCHES. CENTER TO CENTER 4¼ INCHES.**

NUMBER OF BRANCHES		3	4	5	6	7	8	10
2-INCH INLETS	EACH	4.20	5.30	6.40	7.55	9.10	10.10	12.35
2½-INCH INLETS	EACH	4.45	5.55	6.65	7.80	9.35	10.35	12.60
3-INCH INLETS	EACH	4.60	5.70	6.80	7.95	9.50	10.50	12.75
3¼-INCH INLETS	EACH	4.95	6.05	7.15	8.30	9.85	10.85	13.10

All openings in Branch Tees for Circulation are tapped Right hand. Inlets and Outlets same size as Branches, unless otherwise ordered.

BRANCH TEES FOR BOX COILS.

FIG. 118.

BRANCHES ONE INCH.**SMALL PATTERN, INSIDE DIAMETER 1¾ INCHES. CENTER TO CENTER 2¼ INCHES.**

NUMBER OF BRANCHES		2	3	4	5	6	7	8	9
1-INCH INLETS	EACH	.85	.95	1.00	1.10	1.30	1.55	1.80	2.05
1¼-INCH INLETS	EACH	1.10	1.20	1.25	1.35	1.55	1.80	2.05	2.30

BRANCHES ONE INCH.**LARGE PATTERN, INSIDE DIAMETER 2¼ INCHES. CENTER TO CENTER 2¼ INCHES.**

NUMBER OF BRANCHES		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1-INCH INLETS	EACH	.90	1.10	1.20	1.40	1.70	2.15	2.40	2.80	3.30	4.20	4.75	5.50	6.25	7.00	7.75
1¼-INCH INLETS	EACH	1.15	1.25	1.45	1.65	1.95	2.40	2.65	3.05	3.55	4.45	5.00	5.75	6.50	7.25	8.00
1½-INCH INLETS	EACH	1.30	1.40	1.60	1.80	2.10	2.55	2.80	3.20	3.70	4.60	5.15	5.90	6.65	7.40	8.15
2-INCH INLETS	EACH	1.55	1.65	1.85	2.05	2.35	2.80	3.05	3.45	3.95	4.85	5.40	6.15	6.90	7.65	8.40

BRANCHES ONE AND ONE-QUARTER INCH.**LARGE PATTERN, INSIDE DIAMETER 2¼ INCHES. CENTER TO CENTER 3 INCHES.**

NUMBER OF BRANCHES		3	4	5	6	7	8	9	10
1¼-INCH INLETS	EACH	1.55	1.90	2.30	2.80	3.30	3.80	4.40	5.00
1½-INCH INLETS	EACH	1.80	2.15	2.55	3.05	3.55	4.05	4.60	5.25
2-INCH INLETS	EACH	1.95	2.30	2.70	3.20	3.70	4.20	4.80	5.40
2¼-INCH INLETS	EACH	2.20	2.55	2.95	3.45	3.95	4.45	5.00	5.65

Branch Tees for Box Coils are always tapped Left hand in Branches and Right hand in Back Inlet. Inlets same size as Branches, unless otherwise ordered.

HOOK PLATES.

FIG. 119. HOOK PLATE.



FIG. 120. SINGLE HOOK PLATE.



FIG. 121. EXPANSION HOOK PLATE.

HOOK PLATES.—Figs. 119 and 120.

NUMBER OF HOOKS	1	2	3	4	5	6
FOR 1 INCH PIPE, 2½ INCHES CENTER TO CENTER	.07	.14	.18	.20	.26	.32
FOR 1¼ INCH PIPE, 3 INCHES CENTER TO CENTER	.08	.16	.20	.25	.32	.40
FOR 1½ INCH PIPE, 3½ INCHES CENTER TO CENTER	.12	.24	.30	.36	.45	.60
FOR 2 INCH PIPE, 4½ INCHES CENTER TO CENTER	.18	.36	.50	.65	.80	.95

EXPANSION HOOK PLATES.—Fig. 121.

NUMBER OF HOOKS	1	2	3	4	5	6
FOR 1 INCH PIPE, 2½ INCHES CENTER TO CENTER	.10	.19	.22	.25	.35	.40
FOR 1¼ INCH PIPE, 3 INCHES CENTER TO CENTER	.12	.20	.28	.36	.46	.55
FOR 1½ INCH PIPE, 3½ INCHES CENTER TO CENTER	.18	.30	.45	.55	.65	.80



FIG. 122. BEAM HOOK.

BEAM HOOKS.—Fig. 122.

SIZE INCHES	½	¾	1	1¼	1½	2	2½	3
EACH	.11	.12	.16	.18	.20	.28	.56	.75

LAUNDRY COIL STANDS.—Fig. 123.

WITH MOVABLE HOOK PLATES, FOR ONE INCH PIPE.

FIG. 123.
LAUNDRY COIL STAND.

FOUR PIPES HIGH	EACH	2.00
SIX PIPES HIGH	EACH	2.75
EIGHT PIPES HIGH	EACH	3.50
TEN PIPES HIGH	EACH	4.25
EXTRA HOOKS, COMPLETE, NET	EACH	.06



FIG. 124. GAS HOOKS.

GAS HOOKS.—Fig. 124.

SIZE INCHES	¼	⅜	½	¾	1	1¼	1½	2
PER 100	.45	.55	.65	.80	1.00	1.30	1.60	2.00



FIG. 125. TINNED STRAPS.

TINNED STRAPS.—Fig. 125.

TINNED STRAPS	PER POUND	.15
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FIG. 126.
CAST-IRON CEILING PLATES IN HALVES.



FIG. 127.
CAST-IRON CEILING PLATES IN ONE PIECE.



FIG. 128.
CAST-IRON FLOOR PLATES.

CEILING PLATES IN HALVES.—Fig. 126.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
EACH		.16	.18	.20	.25	.30	.35	.50	.60	.70

CEILING PLATES IN ONE PIECE.—Fig. 127.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
EACH		.16	.18	.20	.25	.30	.35	.50	.60	.70

FLOOR PLATES.—Fig. 128.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH		.06	.08	.10	.15	.18	.23	.30	.40

This Floor Plate is made with grooves on the under side of the flange, as shown in cut, in order that it may be easily parted by a slight blow when required to be used in halves.

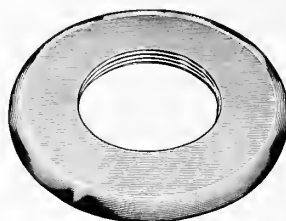


FIG. 129.

CAST BRASS FLOOR PLATE, NICKEL-PLATED.—Fig. 129.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
CAST BRASS FLOOR PLATE, NICKEL-PLATED	EACH	.64	.72	.80	1.00	1.40	1.80

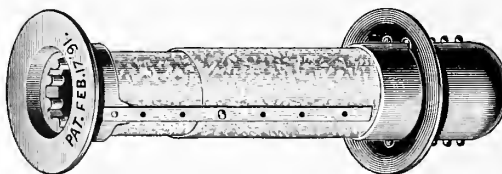


FIG. 130.

EXCELSIOR STEAM PIPE INSULATOR.—Fig. 130.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
EACH		.60	.70	.80	1.00	1.20	1.40	1.65	1.85	2.15

Standard sizes are adjustable from 12 inches to 24 inches. Special lengths made to order.



FIG. 131.
CAST-IRON ADJUSTABLE CEILING PLATE.



FIG. 132.
CAST-IRON ADJUSTABLE FLOOR PLATE.

ADJUSTABLE FLOOR AND CEILING PLATES.—Figs. 131 and 132.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
PLAIN	EACH	.09	.09	.12	.14	.16	.20	.35	.60	.90	1.25	1.60	2.00
NICKEL-PLATED	EACH	.25	.25	.28	.32	.35	.38	.52	.75	1.10	1.50	2.00	2.50

The Nickel-Plated Plates are packed one dozen in a box.

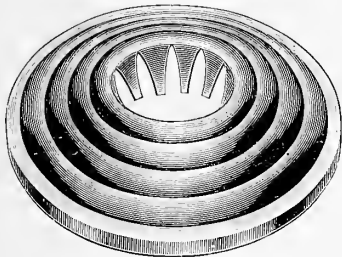


FIG. 133. SOLID PATTERN.

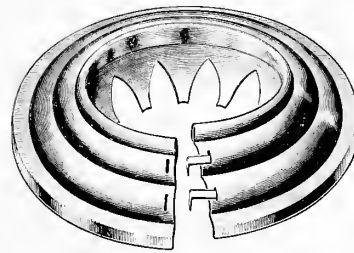


FIG. 134. SPLIT PATTERN.

STAMPED BRASS CEILING PLATES, NICKEL-PLATED.—Figs. 133 and 134.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
SOLID	PER 100	12.00	12.00	12.00	14.00	14.00	16.00	20.00
SPLIT	PER 100	14.00	14.00	14.00	16.00	16.00	18.00	22.00

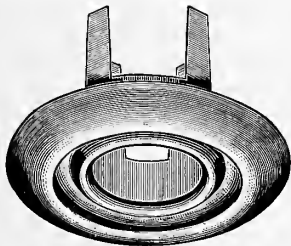


FIG. 135.
STAMPED BRASS FLOOR OR CEILING PLATE.
NICKEL-PLATED.



FIG. 136.
IMPROVED BRASS FLOOR PLATE.
NICKEL-PLATED.

STAMPED FLOOR OR CEILING PLATES.—Fig. 135.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PER 100		10.00	11.00	12.00	13.00	15.00

IMPROVED BRASS FLOOR PLATE.—Fig. 136.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PER 100		12.00	14.00	15.00	16.00	18.00



FIG. 137.

EXPANSION PIPE HANGERS, OR RING HOOKS.—Fig. 137.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
COMPLETE	EACH	.22	.25	.30	.38	.44	.55	.65	.90	1.15	1.50	2.25
SIZE OF PIPE, RINGS AND BUTTONS ARE TAPPED FOR	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$

PARTS OF EXPANSION PIPE HANGERS.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
PLATES	EACH	.10	.10	.10	.12	.12	.15	.15	.15	.15	.15	.15
BUTTONS	EACH	.08	.08	.08	.09	.09	.10	.10	.10	.10	.10	.10
RINGS	EACH	.10	.15	.20	.25	.35	.45	.55	.75	1.05	1.40	2.20



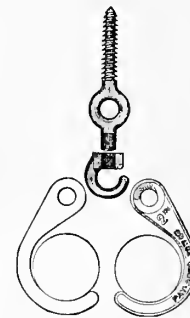
FIG. 138. CLOSED.



FIG. 139. OPEN.



FIG. 140.



SECTIONAL VIEW.

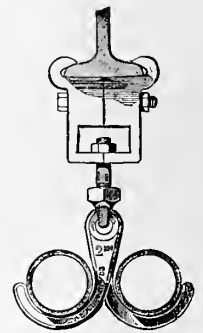


FIG. 141.

ADJUSTABLE PIPE HANGER.—Figs. 138 and 139.**MALLEABLE IRON.**

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
EACH		.15	.18	.18	.20	.25	.28	.33	.38	.45	.55	.65	.75

EUREKA PATENT ADJUSTABLE PIPE HANGER.—Fig. 140.**THREADS IN NUTS STANDARD PIPE THREAD.**

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8
MALLEABLE IRON		.15	.18	.18	.20	.25	.28	.33	.38	.45	.55	.65	.75	1.15	1.25

CAST-IRON CLAMPS FOR GIRDERS.—As shown in Fig. 141.

SIZE	INCHES	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
EACH		.40	.40	.60	.60	.60	.60

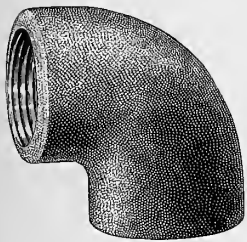
MALLEABLE IRON FITTINGS.

FIG. 142. GAS ELBOW.

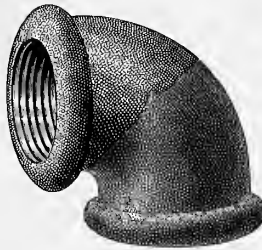


FIG. 143. BEADED ELBOW.

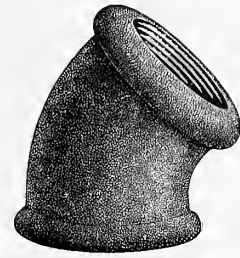


FIG. 144. 45° ELBOW.

ELBOWS.—Figs. 142 and 143.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
PLAIN	EACH	.04	.04	.06	.10	.15	.22	.25	.35	.50	.80	1.50	2.25	3.00
GALVANIZED	EACH	---	.05	.08	.14	.20	.32	.40	.60	.90	1.35	2.60	3.75	5.00

ELBOWS, 45°.—Fig. 144.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
PLAIN	EACH	.10	.12	.18	.26	.36	.54	.82	---
GALVANIZED	EACH	.15	.20	.25	.40	.50	.85	1.35	---

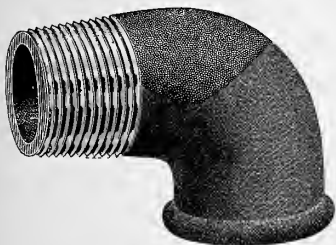


FIG. 145. STREET ELBOW.



FIG. 146. SIDE OUTLET ELBOW.

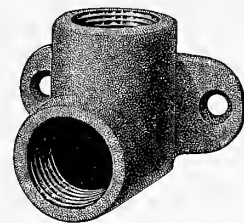


FIG. 147. DROP ELBOW.

STREET ELBOWS.—Fig. 145.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PLAIN	EACH	.10	.12	.20	.25	.40	.55	.90
GALVANIZED	EACH	.12	.15	.28	.35	.55	.80	1.30

SIDE OUTLET ELBOWS.—Fig. 146.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
EACH		.08	.10	.18	.30	.45	.60

DROP ELBOWS.—Fig. 147.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
PLAIN	EACH	.06	.08	.12	.20	.25
GALVANIZED	EACH	---	.12	.20	.35	.40

For Weights and Classifications of Malleable Fittings, see pages 49 to 54.

MALLEABLE IRON FITTINGS.

FIG. 148. DROP ELBOW, FLANGE RIGHT.



FIG. 149. DROP ELBOW, FLANGE LEFT.



FIG. 150. LONG DROP ELBOW.

DROP ELBOWS.—Figs. 148, 149, and 150.

SIZE	INCHES	$\frac{1}{4}$ x $\frac{3}{8}$	$\frac{3}{8}$ x $\frac{3}{8}$
RIGHT OR LEFT DROP ELBOWS, FIGS. 148 AND 149	EACH	.08	.08
LONG DROP ELBOWS, FIG. 150	EACH	.10	.10
LONG DROP ELBOWS, FIG. 150, GALVANIZED	EACH	.18	.18

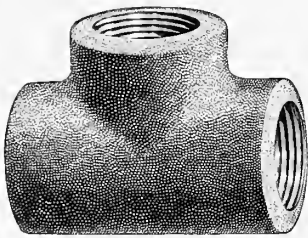


FIG. 151. GAS TEE.

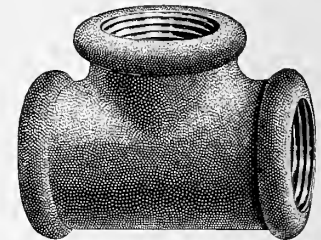


FIG. 152. BEADED TEE.

TEES.—Figs. 151 and 152.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
PLAIN	EACH	.07	.07	.08	.11	.15	.25	.30	.45	.60	1.05	1.70	2.50	3.40
GALVANIZED	EACH	---	---	.10	.16	.20	.38	.50	.70	1.00	1.90	3.00	4.25	5.75

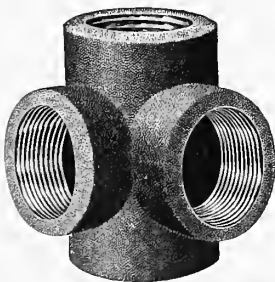


FIG. 153. FOUR-WAY TEE.



FIG. 154. DROP TEE.

FOUR-WAY AND DROP TEES.—Figs. 153 and 154.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
FOUR-WAY TEES, PLAIN	EACH	---	.12	.14	.20	.35	.50	.80
DROP TEES, PLAIN	EACH	.08	.10	.14	.22	.30	---	---
DROP TEES, GALVANIZED	EACH	---	.15	.25	.40	.55	---	---
LONG DROP TEES	EACH	---	.12	---	---	---	---	---

For Weights and Classification of Malleable Fittings, see pages 49 to 54.

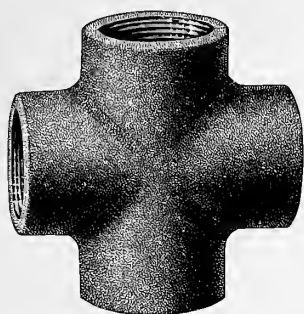
MALLEABLE IRON FITTINGS.

FIG. 155. GAS CROSS.



FIG. 156. BEADED CROSS.

CROSSES.—Figs. 155 and 156.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
PLAIN	EACH	.08	.10	.12	.20	.30	.40	.60	1.00	1.75	3.00	3.25	5.25
GALVANIZED	EACH	----	.15	.17	.25	.45	.60	.90	1.50	2.75	4.25	5.00	8.00

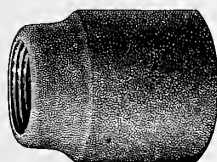


FIG. 157. REDUCER.

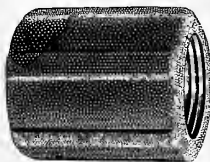


FIG. 158. RIGHT AND LEFT COUPLING.



FIG. 159. CAP.

REDUCERS.—Fig. 157.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
PLAIN	EACH	.03	.03	.05	.10	.16	.20	.28	.45	.70	1.00	1.50	1.85
GALVANIZED	EACH	----	.05	.08	.15	.25	.35	.45	.75	1.05	1.65	2.40	3.05

RIGHT AND LEFT COUPLINGS.—Fig. 158.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PLAIN	EACH	.04	.05	.08	.12	.16	.25	.36	.52
GALVANIZED	EACH	.06	.08	.10	.17	.25	.35	.55	.75

CAPS.—Fig. 159.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
PLAIN	EACH	.03	.04	.05	.08	.12	.16	.24	.32	.45	.85	1.00	1.20
GALVANIZED	EACH	.04	.05	.08	.12	.17	.24	.38	.52	.76	1.30	2.25	3.00

For Weights and Classification of Malleable Fittings, see pages 49 to 54.

MALLEABLE IRON FITTINGS.



FIG. 160. BUSHING.



FIG. 161. FACED BUSHING.



FIG. 162. LOCKNUT.

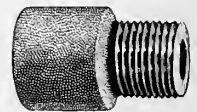


FIG. 163. EXTENSION PIECE

SIZE	INCHES	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
BUSHINGS, PLAIN	EACH	---	.05	.06	.07	.09	.13	.17	.27	.42	---
BUSHINGS, GALVANIZED	EACH	---	.06	.07	.10	.14	.21	.30	.44	.59	---
FACED BUSHINGS, PLAIN	EACH	---	---	---	.11	.13	.17	.22	.32	.48	---
LOCKNUTS, PLAIN	EACH	.02	.03	.04	.05	.07	.09	.11	.18	.40	.50
LOCKNUTS, GALVANIZED	EACH	.03	.04	.05	.07	.10	.14	.20	.30	.55	.70
EXTENSION PIECES	EACH	---	.06	.09	.12	---	---	---	---	---	---

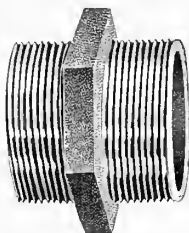


FIG. 164. HEXAGON NIPPLE.

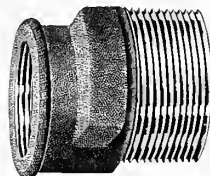


FIG. 165. OFFSET REDUCING COUPLING.

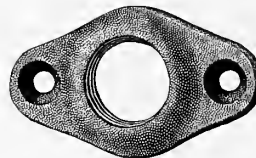


FIG. 166. WASTE NUT.



FIG. 167. WALL PLATE.

HEXAGON NIPPLES.—Fig. 164.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH		.25	.30	.40	.50	.70

OFFSET REDUCING COUPLINGS.—Fig. 165.

SIZE	INCHES	$1 \times \frac{3}{4}$	$1\frac{1}{4} \times 1$	$1\frac{1}{2} \times 1\frac{1}{4}$	$2 \times 1\frac{1}{2}$	$2\frac{1}{2} \times 2$	$3 \times 2\frac{1}{2}$	$3\frac{1}{2} \times 3$	4×3	5×4
EACH		.30	.35	.45	.55	.90	1.25	1.75	2.25	3.00

WASTE NUTS.—Fig. 166.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
PLAIN	EACH	.04	.05	.06	.08	.10
GALVANIZED	EACH	.08	.10	.12	.16	.20

WALL PLATES.—Fig. 167.

SIZE	INCHES	$\frac{3}{8}$
EACH		.12



FIG. 168. LOOP.



FIG. 169. CHANDELIER HOOK—MALE.



FIG. 170. CHANDELIER HOOK—FEMALE.

CHANDELIER LOOPS AND HOOKS.—Figs. 168, 169, and 170.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$
CHANDELIER LOOPS, FIG. 168	EACH	.10	.12
CHANDELIER HOOKS, FIGS. 169 AND 170	EACH	.10	.12

For Weights and Classification of Malleable Fittings, see pages 49 to 54.

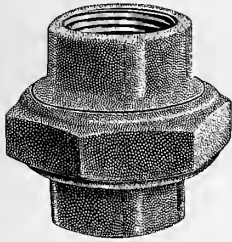
MALLEABLE IRON FITTINGS.

FIG. 171. MALLEABLE UNION.

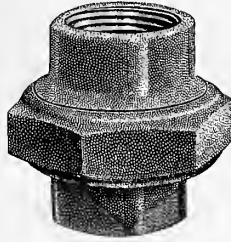


FIG. 172. KEYSTONE UNION.

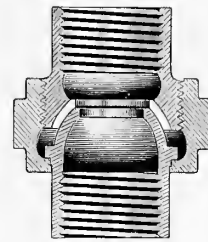


FIG. 173. SECTIONAL VIEW KEYSTONE UNION.

MALLEABLE UNIONS.—Fig. 171.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
PLAIN	EACH	.15	.18	.20	.28	.34	.46	.60	.80	1.50	2.10	3.00	4.00
GALVANIZED	EACH	.20	.24	.27	.37	.50	.70	.90	1.20	2.25	2.90	4.50	5.60

KEYSTONE UNIONS.—Fig. 172.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
PLAIN	EACH	.20	.24	.28	.35	.40	.56	.80	.95	2.00	2.75
GALVANIZED	EACH	.24	.28	.35	.46	.55	.78	1.12	1.35	2.90	3.75
TINNED	EACH	.30	.33	.45	.55	.65	.90	1.40	1.55	----	----



FIG. 174. MALE UNION ELBOW.

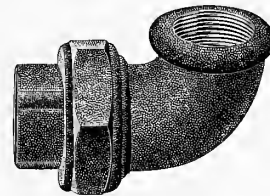


FIG. 175. FEMALE UNION ELBOW.

UNION ELBOWS.—Figs. 174 and 175.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
MALE OR FEMALE, PLAIN	EACH	.28	.35	.45	.65	.80	1.25	2.50
MALE OR FEMALE, GALVANIZED	EACH	.40	.55	.65	1.00	1.20	1.85	3.75



FIG. 176. MALE UNION TEE.

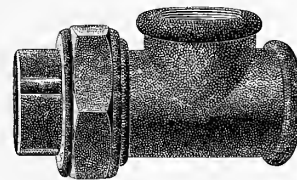


FIG. 177. FEMALE UNION TEE.

UNION TEES.—Figs. 176 and 177.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
MALE OR FEMALE, PLAIN	EACH	.28	.55	.45	.65	.80	1.25	2.50
MALE OR FEMALE, GALVANIZED	EACH	.40	.35	.65	1.00	1.20	1.85	3.75

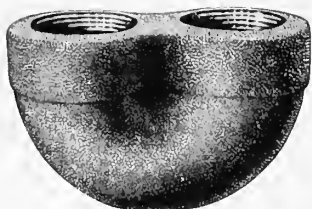
MALLEABLE RETURN BENDS.

FIG. 178. CLOSE PATTERN.

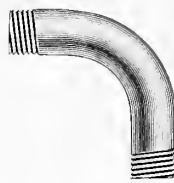
RETURN BENDS, CLOSE PATTERN.—Fig. 178.

FIG. 179. OPEN PATTERN.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
CENTER TO CENTER		1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{3}{16}$	$2\frac{5}{8}$
RIGHT HAND, PLAIN	EACH	.13	.25	.35	.50	.75	1.00
RIGHT AND LEFT, PLAIN	EACH	.15	.30	.45	.60	.90	1.25
RIGHT HAND, GALVANIZED	EACH	.25	.35	.55	.75	1.15	1.65

RETURN BENDS, OPEN PATTERN.—Fig. 179.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
CENTER TO CENTER		$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5
RIGHT HAND, PLAIN	EACH	.15	.30	.50	.65	.85	1.25	2.00	3.00
RIGHT AND LEFT, PLAIN	EACH	.20	.38	.60	.80	1.05	1.55	2.50	3.75
RIGHT HAND, GALVANIZED	EACH	.25	.45	.70	.90	1.25	2.00	3.50	5.00

FIG. 180.
WROUGHT-IRON RETURN BEND.FIG. 181.
WROUGHT-IRON QUARTER BEND.FIG. 182.
WROUGHT-IRON GOOSE NECK.**WROUGHT-IRON RETURN BENDS.—Fig. 180.**

MADE FROM EXTRA HEAVY PIPE.

SIZE	INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
LEAST DISTANCE BETWEEN CENTERS PIPE CAN BE BENT	INCHES	4	6	8	8
LEAST LENGTH CENTER TO END RETURN BENDS CAN BE MADE	INCHES	5	6	8	8

WROUGHT-IRON QUARTER BENDS.—Fig. 181.

SIZE	INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
LEAST RADIUS THE PIPE CAN BE BENT	INCHES	2	3	4	4
LEAST LENGTH CENTER TO END QUARTER BENDS CAN BE MADE	INCHES	5	6	8	8

WROUGHT-IRON GOOSE NECKS.—Fig. 182.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$
LEAST DISTANCE BETWEEN CENTERS PIPE CAN BE BENT	INCHES	$3\frac{1}{2}$	4	6
LEAST LENGTH CENTER TO END GOOSE NECKS CAN BE MADE	INCHES	5	5	6

The dimensions of Wrought-iron Bends vary so that we are unable to make a list price. Upon receipt of dimensions and quantity wanted we will be pleased to quote prices.

REVISED CLASSIFICATION OF MALLEABLE FITTINGS.

CLASS A.—25 CENTS PER POUND.

ELBOWS	$\frac{1}{8}$, $\frac{1}{4}$ x $\frac{1}{8}$, $\frac{3}{8}$ x $\frac{1}{8}$.
TEES	$\frac{1}{8}$, $\frac{1}{4}$ x $\frac{1}{4}$, $\frac{1}{4}$ x $\frac{1}{8}$, $\frac{3}{8}$ x $\frac{1}{8}$.
REDUCING COUPLINGS	$\frac{1}{4}$ x $\frac{1}{8}$, $\frac{3}{8}$ x $\frac{1}{8}$.
ROD COUPLINGS	
R. & L. RIGHT COUPLINGS	$\frac{1}{8}$ in.

CLASS B.—16 CENTS PER POUND.

ELBOWS AND TEES	$\frac{1}{4}$ to $\frac{1}{2}$ in. inclusive.
ELBOWS, SIDE OUTLET	all sizes.
ELBOWS, 45°	1 in. and smaller.
SERVICE OR STREET ELLS	to $\frac{3}{4}$ in. inclusive.
CROSSES	to 1 in. inclusive.
DROP ELLS AND TEES	all sizes.
FOUR-WAY TEES	all sizes.
PLUGS, CAPS, AND LOCKNUTS	to 1 in. inclusive.
REDUCING COUPLINGS	$\frac{3}{8}$ x $\frac{1}{4}$ to 1 in. inclusive.
R. & L. COUPLINGS	$\frac{1}{4}$ to $\frac{3}{4}$ in. inclusive.
EXTENSION PIECES	all sizes.
R. & L. FITTINGS	to 1 in. inclusive.
R. H. COUPLINGS	$\frac{1}{4}$ to $\frac{3}{4}$ in. inclusive.
WASTE NUTS	

CHANDELIER HOOKS	
RETURN BENDS	to 1 in. inclusive.
WALL PLATES	

CLASS C.—13 CENTS PER POUND.

Any Fittings in this class that have smaller outlets than $\frac{3}{4}$ in. to be classed "B."

ELBOWS AND TEES	$\frac{3}{4}$ to 1 in. inclusive.
ELBOWS, 45°	$1\frac{1}{4}$ in. and larger.
CROSSES	$1\frac{1}{4}$ in. and larger.
SERVICE OR STREET ELLS	1 in. and larger.
PLUGS, CAPS, AND LOCKNUTS	$1\frac{1}{4}$ in. and larger.
REDUCING COUPLINGS	$1\frac{1}{4}$ in. and larger.
R. & L. FITTINGS	$1\frac{1}{4}$ in. and larger.
R. H. COUPLINGS	1 in. and $1\frac{1}{4}$ in.
RETURN BENDS	$1\frac{1}{4}$ in. and larger.
R. & L. COUPLINGS	1 in. and larger.

CLASS D.—11 CENTS PER POUND.

Any Fittings in this class that have outlets smaller than 1 in. to be classed as "C."

ELBOWS AND TEES	$1\frac{1}{4}$ in. and larger.
RIGHT HAND COUPLINGS	$1\frac{1}{2}$ and 2 in.

STANDARD LIST OF GALVANIZED MALLEABLE FITTINGS.

ADOPTED BY MANUFACTURERS' ASSOCIATION.

ELBOWS	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{1}{2}$ x $\frac{3}{8}$, $\frac{3}{4}$, $\frac{3}{4}$ x $\frac{1}{2}$, 1, 1 x $\frac{3}{4}$, $1\frac{1}{4}$, $1\frac{1}{4}$ x 1, $1\frac{1}{2}$, $1\frac{1}{2}$ x $1\frac{1}{4}$, 2, 2 x $1\frac{1}{2}$, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4.
STREET ELLS	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2.

TEES.

Size.	Class.	Size.	Class.	Size.	Class.	Size.	Class.	Size.	Class.
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	B	$\frac{3}{4}$ x $\frac{3}{4}$ x 1	C	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{3}{4}$	D	$1\frac{1}{2}$ x $1\frac{1}{2}$ x 1	D	2 x 2 x $1\frac{1}{4}$	D
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	B	1 x $\frac{3}{4}$ x $\frac{3}{4}$	C	$1\frac{1}{4}$ x $1\frac{1}{4}$ x 1	D	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $1\frac{1}{4}$	D	2 x 2 x $1\frac{1}{2}$	D
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	B	1 x $\frac{3}{4}$ x 1	C	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$	D	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $1\frac{1}{2}$	D	2 x $1\frac{1}{2}$ x 2	D
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{4}$	B	1 x 1 x $\frac{1}{2}$	C	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $1\frac{1}{2}$	D	$1\frac{1}{2}$ x $1\frac{1}{2}$ x 2	D	2 x 2 x 2	D
$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$	B	1 x 1 x $\frac{3}{4}$	C	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{1}{2}$	D	2 x $1\frac{1}{2}$ x $1\frac{1}{2}$	D	$2\frac{1}{2}$ x $2\frac{1}{2}$ x $2\frac{1}{2}$	D
$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{4}$	B	1 x 1 x 1	C	$1\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$	D	2 x 2 x $\frac{1}{2}$	D	3 x 3 x 3	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$	B	1 x 1 x $1\frac{1}{4}$	D	$1\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{2}$	D	2 x 2 x $\frac{3}{4}$	D	$3\frac{1}{2}$ x $3\frac{1}{2}$ x $3\frac{1}{2}$	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	B	$1\frac{1}{4}$ x 1 x 1	D	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{1}{2}$	D	2 x 2 x 1	D	4 x 4 x 4	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	C	$1\frac{1}{4}$ x 1 x $1\frac{1}{4}$	D	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{3}{4}$	D				

COUPLINGS	Right Hand, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2.
COUPLINGS	Right and Left, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2.
COUPLINGS	Reducing, $\frac{3}{4}$ x $\frac{1}{2}$, 1 x $\frac{3}{4}$, $1\frac{1}{4}$ x 1, $1\frac{1}{2}$ x $1\frac{1}{4}$, 2 x $1\frac{1}{2}$.
CROSSES	Straight Sizes, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2.
LOCKNUTS	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2.
CAPS	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2.
FEMALE DROP ELBOWS AND TEES	$\frac{1}{2}$, $\frac{3}{4}$.

GALVANIZED FITTINGS.

AS PER STANDARD LIST	A	B	C	D
PRICE PER POUND	.35	.23	.20	.18

An extra charge of 10 cents per pound will be added to price of Galvanized Fittings not enumerated in Standard List.

**LIST OF SIZES, WEIGHTS, AND CLASSIFICATION
OF
MALLEABLE IRON FITTINGS.**

ELBOWS.

Weights on this and following pages are only approximate and not guaranteed.

Size.	Weight, Plain, Lbs. per 100.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Plain, Lbs. per 100.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Plain, Lbs. per 100.	Weight, Beaded, Lbs. per 100.	Class.
$\frac{1}{4}$ x $\frac{1}{4}$	8	-----	A	1 x $\frac{1}{2}$	47 $\frac{1}{2}$	59	B	2	169 $\frac{1}{2}$	214	D
$\frac{1}{4}$ x $\frac{1}{2}$	7 $\frac{1}{2}$	-----	A	1 x $\frac{3}{4}$	45	61 $\frac{1}{2}$	C	$2\frac{1}{2}$ x $1\frac{1}{2}$	-----	388	D
$\frac{1}{4}$ x $\frac{3}{4}$	8 $\frac{1}{2}$	10	B	1	42 $\frac{1}{2}$	63	C	$2\frac{1}{2}$ x 2	-----	344	D
$\frac{3}{8}$ x $\frac{1}{4}$	14 $\frac{1}{2}$	-----	B	$1\frac{1}{4}$ x $\frac{3}{4}$	83	104 $\frac{1}{2}$	C	2 $\frac{1}{2}$	-----	407	D
$\frac{3}{8}$ x $\frac{1}{2}$	14	16	B	$1\frac{1}{4}$ x 1	88 $\frac{1}{2}$	97 $\frac{1}{2}$	D	3 x 2	-----	438	D
$\frac{3}{8}$ x $\frac{3}{4}$	15	16	B	1 $\frac{1}{4}$ x $1\frac{1}{4}$	76	99	D	3 x $2\frac{1}{2}$	-----	531	D
$\frac{1}{2}$ x $\frac{1}{4}$	22 $\frac{1}{2}$	-----	B	$1\frac{1}{2}$ x $\frac{3}{4}$	102 $\frac{1}{2}$	167	C	3	-----	620	D
$\frac{1}{2}$ x $\frac{1}{2}$	19 $\frac{1}{2}$	25 $\frac{1}{2}$	B	$1\frac{1}{2}$ x 1	94 $\frac{1}{2}$	148 $\frac{1}{2}$	D	$3\frac{1}{2}$ x 3	-----	1200	D
$\frac{1}{2}$ x $\frac{3}{4}$	22	23 $\frac{1}{2}$	B	$1\frac{1}{2}$ x $1\frac{1}{4}$	101	145	D	$3\frac{1}{2}$	-----	1000	D
$\frac{3}{4}$ x $\frac{1}{4}$	31	-----	B	1 $\frac{1}{2}$	105	143	D	4 x $3\frac{1}{2}$	-----	1250	D
$\frac{3}{4}$ x $\frac{1}{2}$	35	40 $\frac{1}{2}$	B	2 x $1\frac{1}{4}$	176	225	D	4	-----	1506	D
$\frac{3}{4}$ x $\frac{3}{4}$	33 $\frac{1}{2}$	39	C	2 x 1	-----	215	D	4 x 3	-----	1200	D
1 x $\frac{1}{2}$	47	-----	B	2 x $1\frac{1}{2}$	169	240	D	-----	-----	-----	-----

STREET ELBOWS.

Size.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Beaded, Lbs. per 100.	Class.
$\frac{3}{8}$	16	B	1 x $\frac{3}{4}$	72	C	$1\frac{1}{2}$ x $1\frac{1}{4}$	153	C
$\frac{1}{2}$	26	B	1	73	C	$1\frac{1}{2}$	158	C
$\frac{3}{4}$ x $\frac{1}{4}$	44	B	$1\frac{1}{4}$ x 1	107	C	2 x $1\frac{1}{2}$	229	C
$\frac{3}{4}$	47	B	$1\frac{1}{4}$	114	C	2	266	C

45° ELBOWS.

Size.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Beaded, Lbs. per 100.	Class.
$\frac{3}{8}$	12 $\frac{1}{2}$	B	$1\frac{1}{4}$	83 $\frac{1}{2}$	C	3	-----	D
$\frac{1}{2}$	16 $\frac{1}{2}$	B	$1\frac{1}{2}$	118	C	$3\frac{1}{2}$	-----	D
$\frac{3}{4}$	31	B	2	170	C	4	-----	D
1	49	B	$2\frac{1}{2}$	-----	D	-----	-----	-----

***SIDE OUTLET ELBOWS.**

Size.	Weight, Plain, Lbs. per 100.	Class.	Size.	Weight, Plain, Lbs. per 100.	Class.	Size.	Weight, Plain, Lbs. per 100.	Class.
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$	12	B	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	38	B	1 x 1 x 1	55 $\frac{1}{2}$	B
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	16	B	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	40	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x 1	87	B
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	19 $\frac{1}{2}$	B	1 x 1 x $\frac{3}{8}$	48	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$	91 $\frac{1}{2}$	B
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	29	B	1 x 1 x $\frac{1}{2}$	49 $\frac{1}{2}$	B	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $1\frac{1}{2}$	151	B
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$	37	B	1 x 1 x $\frac{3}{4}$	51 $\frac{1}{2}$	B	-----	-----	-----

*Smallest opening is always the side opening.

In ordering, be particular to mention if Fittings are for steam or gas.

**LIST OF SIZES, WEIGHTS, AND CLASSIFICATION
OF
MALLEABLE IRON FITTINGS.**

DROP ELBOWS—FEMALE.

Size.	Weight, Plain. Lbs. per 100.	Class.	Size.	Weight, Plain. Lbs. per 100.	Class.
$\frac{1}{4}$ x $\frac{1}{4}$	13	B	$\frac{1}{2}$ x $\frac{1}{2}$	27	B
$\frac{3}{8}$ x $\frac{1}{4}$	22	B	$\frac{3}{4}$ x $\frac{1}{2}$	40 $\frac{1}{2}$	B
$\frac{1}{2}$ x $\frac{3}{8}$	19	B	$\frac{3}{4}$ x $\frac{3}{4}$	41 $\frac{1}{2}$	B
$\frac{1}{2}$ x $\frac{1}{2}$	27	B	1 x 1	----	----

DROP ELBOWS—MALE AND FEMALE.

Size.	Weight. Lbs. per 100.	Class.	Size.	Weight. Lbs. per 100.	Class.
$\frac{1}{2}$ x $\frac{3}{8}$	12	B	$\frac{3}{8}$ x $\frac{3}{8}$	21	B
$\frac{1}{4}$ x $\frac{3}{8}$	16 $\frac{1}{2}$	B	$\frac{1}{2}$ x $\frac{3}{8}$	25 $\frac{1}{2}$	B
$\frac{3}{8}$ x $\frac{3}{8}$ Long Drop.	26	B	$\frac{1}{4}$ x $\frac{3}{8}$ Long Drop.	16	B

DROP ELBOWS—WITH FLANGES RIGHT OR LEFT.

Size.	Weight. Lbs. per 100.	Class.	Size.	Weight. Lbs. per 100.	Class.
$\frac{1}{4}$ x $\frac{3}{8}$	14 $\frac{1}{2}$	B	$\frac{1}{4}$ x $\frac{3}{8}$	13 $\frac{1}{2}$	B
$\frac{3}{8}$ x $\frac{3}{8}$	20 $\frac{1}{4}$	B	$\frac{3}{8}$ x $\frac{3}{8}$	20 $\frac{1}{4}$	B

EXTENSION PIECES—MALE AND FEMALE.

Size.	Weight. Lbs. per 100.	Class.	Size.	Weight. Lbs. per 100.	Class.
$\frac{3}{8}$ x $\frac{3}{8}$	9 $\frac{1}{2}$	B	$\frac{3}{4}$ x $\frac{3}{4}$	22 $\frac{1}{2}$	B
$\frac{1}{2}$ x $\frac{1}{2}$	15	B	1 x 1	32 $\frac{1}{2}$	B

COUPLINGS.

Size.	Weight, R. & L. Lbs. per 100.	Weight, Hexagon. Lbs. per 100.	Class.	Size.	Weight, R. & L. Lbs. per 100.	Weight, Hexagon. Lbs. per 100.	Class.
$\frac{1}{4}$	9	----	B	1	50 $\frac{1}{2}$	45	C
$\frac{3}{8}$	13	12	B	1 $\frac{1}{4}$	72	68	C
$\frac{1}{2}$	17 $\frac{1}{2}$	19	B	1 $\frac{1}{2}$	106	100	C
$\frac{3}{4}$	29	30	B	2	152	148	C

In ordering, be particular to mention if Fittings are for steam or gas.

**LIST OF SIZES, WEIGHTS, AND CLASSIFICATION
OF
MALLEABLE IRON FITTINGS.**

In describing Tees, the RUN is first named, then the outlet, thus: $\frac{1}{2}$ — $\frac{3}{8}$ — $\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{4}$.

TEES.

Size.	Weight, Plain, Lbs. per 100.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Plain, Lbs. per 100.	Weight, Beaded, Lbs. per 100.	Class.	Size.	Weight, Plain, Lbs. per 100.	Weight, Beaded, Lbs. per 100.	Class.
$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{8}$	8	—	A	1 x $\frac{1}{2}$ x $\frac{3}{4}$	40 $\frac{1}{2}$	—	B	$1\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$	96	164	D
$\frac{1}{8}$ x $\frac{1}{8}$ x $\frac{1}{4}$	9	—	A	1 x $\frac{1}{4}$ x 1	—	—	B	$1\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{2}$	110	174	D
$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{8}$	9 $\frac{1}{2}$	—	A	1 x $\frac{1}{2}$ x 1	48	—	B	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{3}{8}$	85	114 $\frac{1}{2}$	C
$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	12	14 $\frac{1}{2}$	B	1 x $\frac{1}{2}$ x $1\frac{1}{4}$	68	—	B	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{1}{2}$	77 $\frac{1}{2}$	85 $\frac{1}{2}$	C
$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{3}{8}$	16	—	B	1 x $\frac{3}{4}$ x $\frac{3}{8}$	39 $\frac{1}{2}$	54	B	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{3}{4}$	91 $\frac{1}{2}$	120 $\frac{1}{2}$	C
$\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$	15	—	B	1 x $\frac{3}{4}$ x $\frac{1}{2}$	44	58	B	$1\frac{1}{2}$ x $1\frac{1}{2}$ x 1	102	150	D
$\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{3}{8}$	18 $\frac{1}{2}$	—	B	1 x $\frac{3}{4}$ x $\frac{3}{4}$	38	65	C	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $1\frac{1}{4}$	102	155	D
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{8}$	16	—	A	1 x $\frac{3}{4}$ x 1	49	78	C	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $1\frac{1}{2}$	126	171	D
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$	15	—	B	1 x $\frac{3}{4}$ x $1\frac{1}{4}$	67 $\frac{1}{2}$	100	C	$1\frac{1}{2}$ x $1\frac{1}{2}$ x 2	131 $\frac{1}{2}$	212	D
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	16 $\frac{1}{2}$	17	B	1 x 1 x $\frac{1}{4}$	37	44	B	2 x $\frac{3}{8}$ x 2	—	236	C
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{2}$	24	—	B	1 x 1 x $\frac{3}{8}$	35	47	B	2 x $\frac{1}{2}$ x 2	250	273	C
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{4}$	27	—	B	1 x 1 x $\frac{1}{2}$	41 $\frac{1}{2}$	44	B	2 x $\frac{3}{4}$ x 2	203	267	C
$\frac{3}{8}$ x 2 x 1	—	—	B	1 x 1 x $\frac{3}{4}$	50 $\frac{1}{2}$	68 $\frac{1}{2}$	C	2 x 1 x 2	221	273	D
$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{4}$	18 $\frac{1}{2}$	—	B	1 x 1 x 1	53	75	C	2 x $1\frac{1}{4}$ x $1\frac{1}{4}$	172	203	D
$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{2}$	22	—	B	1 x 1 x $1\frac{1}{4}$	60 $\frac{1}{2}$	96 $\frac{1}{2}$	D	2 x $1\frac{1}{4}$ x $1\frac{1}{2}$	146	232	D
$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{3}{4}$	20	—	B	1 x 1 x $1\frac{1}{2}$	109	—	C	2 x $1\frac{1}{4}$ x 2	203	270	D
$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	24 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x $\frac{3}{8}$ x 1	83	—	C	2 x $1\frac{1}{2}$ x $1\frac{1}{4}$	155	208	D
$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{2}$	26 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x $\frac{3}{8}$ x $1\frac{1}{4}$	89	—	C	2 x $1\frac{1}{2}$ x $1\frac{1}{2}$	169	210	D
$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{4}$	32 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x $\frac{1}{2}$ x 1	83	—	C	2 x $1\frac{1}{2}$ x 2	214	264	D
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{4}$	21	—	B	$1\frac{1}{4}$ x $\frac{1}{2}$ x $1\frac{1}{4}$	94	—	C	2 x 2 x $\frac{3}{8}$	118	124	C
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	21 $\frac{1}{2}$	22 $\frac{1}{2}$	B	$1\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	67	86	C	2 x 2 x $\frac{1}{2}$	120	163	C
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	26	28	B	$1\frac{1}{4}$ x $\frac{3}{4}$ x 1	72	—	C	2 x 2 x $\frac{3}{4}$	107	165	C
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{4}$	29 $\frac{1}{2}$	33 $\frac{1}{2}$	B	$1\frac{1}{4}$ x $\frac{3}{4}$ x $1\frac{1}{4}$	89	124	C	2 x 2 x 1	130	175	D
$\frac{1}{2}$ x $\frac{3}{4}$ x 1	34 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x 1 x $\frac{3}{8}$	56	—	C	2 x 2 x $1\frac{1}{4}$	152	219	D
$\frac{3}{4}$ x $\frac{1}{2}$ x $1\frac{1}{4}$	75	—	B	$1\frac{1}{4}$ x 1 x $\frac{1}{2}$	47	—	C	2 x 2 x $1\frac{1}{2}$	154	217	D
$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$	29	—	B	$1\frac{1}{4}$ x 1 x $\frac{3}{4}$	65	92	C	2 x 2 x 2	197	262	D
$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{2}$	35 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x 1 x 1	74	103	D	2 x 2 x $2\frac{1}{2}$	—	350	D
$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{4}$	30 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x 1 x $1\frac{1}{4}$	92	132	D	$2\frac{1}{2}$ x $2\frac{1}{2}$ x 1	—	350	D
$\frac{3}{4}$ x $\frac{3}{8}$ x 1	50	—	B	$1\frac{1}{4}$ x 1 x $1\frac{1}{2}$	109	—	D	$2\frac{1}{2}$ x $2\frac{1}{2}$ x $1\frac{1}{4}$	—	300	D
$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$	33	—	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{3}{8}$	63	89	C	$2\frac{1}{2}$ x $2\frac{1}{2}$ x $1\frac{1}{2}$	—	300	D
$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$	29	—	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{1}{2}$	66	89	C	$2\frac{1}{2}$ x $2\frac{1}{2}$ x 2	—	350	D
$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{4}$	34	38 $\frac{1}{2}$	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{3}{4}$	71	96	C	$2\frac{1}{2}$ x $2\frac{1}{2}$ x $2\frac{1}{2}$	—	500	D
$\frac{3}{4}$ x $\frac{1}{2}$ x 1	38	49 $\frac{1}{2}$	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x 1	80	111	D	3 x 3 x 1	—	450	C
$\frac{3}{4}$ x $\frac{1}{2}$ x $1\frac{1}{4}$	50 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$	90	115	D	3 x 3 x $1\frac{1}{4}$	—	450	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{4}$	29 $\frac{1}{2}$	—	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $1\frac{1}{2}$	89	102	D	3 x 3 x $1\frac{1}{2}$	—	450	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$	30 $\frac{1}{2}$	42	B	$1\frac{1}{4}$ x $1\frac{1}{4}$ x 2	—	206	D	3 x 3 x 2	—	500	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	34	52	B	$1\frac{1}{2}$ x $\frac{3}{8}$ x $1\frac{1}{2}$	—	167	C	3 x 3 x $2\frac{1}{2}$	—	650	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	41	49	C	$1\frac{1}{2}$ x $\frac{1}{2}$ x 1	91	—	C	3 x 3 x 3	—	750	D
$\frac{3}{4}$ x $\frac{3}{4}$ x 1	34	59 $\frac{1}{2}$	C	$1\frac{1}{2}$ x $\frac{1}{2}$ x $1\frac{1}{2}$	113 $\frac{1}{2}$	—	C	$3\frac{1}{2}$ x $3\frac{1}{2}$ x $2\frac{1}{2}$	—	700	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $1\frac{1}{4}$	64	—	B	$1\frac{1}{2}$ x $\frac{3}{4}$ x $1\frac{1}{4}$	90	—	C	$3\frac{1}{2}$ x $3\frac{1}{2}$ x 3	—	850	D
$\frac{3}{4}$ x $\frac{3}{4}$ x $1\frac{1}{2}$	69	—	B	$1\frac{1}{2}$ x $\frac{3}{4}$ x $1\frac{1}{2}$	114	176	C	$3\frac{1}{2}$ x $3\frac{1}{2}$ x $3\frac{1}{2}$	—	1300	D
1 x $\frac{3}{8}$ x $\frac{1}{2}$	44 $\frac{1}{2}$	—	B	$1\frac{1}{2}$ x 1 x $\frac{3}{4}$	81	110	C	4 x 4 x 2	—	1000	D
1 x $\frac{3}{8}$ x $\frac{3}{4}$	47 $\frac{1}{2}$	—	B	$1\frac{1}{2}$ x 1 x 1	91	—	D	4 x 4 x $2\frac{1}{2}$	—	1100	D
1 x $\frac{3}{8}$ x 1	54	—	B	$1\frac{1}{2}$ x 1 x $1\frac{1}{4}$	94	—	D	4 x 4 x 3	—	1200	D
1 x $\frac{3}{8}$ x $1\frac{1}{4}$	67 $\frac{1}{2}$	—	B	$1\frac{1}{2}$ x 1 x $1\frac{1}{2}$	109	183	D	4 x 4 x $3\frac{1}{2}$	—	1300	D
1 x $\frac{1}{2}$ x $\frac{3}{8}$	37 $\frac{1}{2}$	—	B	$1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{3}{4}$	82	—	C	4 x 4 x 4	—	1450	D
1 x $\frac{1}{2}$ x $\frac{1}{2}$	42	52	B	$1\frac{1}{2}$ x $1\frac{1}{2}$ x 1	91	139	D	—	—	—	—

In ordering, be particular to mention if Fittings are for steam or gas.

**LIST OF SIZES, WEIGHTS, AND CLASSIFICATION
OF
MALLEABLE IRON FITTINGS.**

CROSSES.

The outlets of a Cross are always the same size, and both denoted by the last figure.

Size.	Weight, Plain. Lbs. per 100.	Weight, Beaded. Lbs. per 100.	Class.	Size.	Weight, Plain. Lbs. per 100.	Weight, Beaded. Lbs. per 100.	Class.	Size.	Weight, Plain. Lbs. per 100.	Weight, Beaded. Lbs. per 100.	Class.
$\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$	13 $\frac{1}{2}$	----	B	1 x $\frac{3}{4}$ x $\frac{1}{2}$	50 $\frac{1}{2}$	----	B	$1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$	121	155	C
$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$	16	----	B	1 x $\frac{3}{4}$ x $\frac{3}{4}$	54 $\frac{1}{2}$	----	B	$1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$	142	157	C
$\frac{3}{8} \times \frac{1}{4} \times \frac{1}{4}$	16	----	B	1 x 1 x $\frac{3}{8}$	42	46	B	2 x 2 x $\frac{1}{2}$	101	200	B
$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	19 $\frac{1}{2}$	----	B	1 x 1 x $\frac{1}{2}$	32	49	B	2 x 2 x $\frac{3}{4}$	122	198	C
$\frac{1}{2} \times \frac{3}{8} \times \frac{1}{4}$	22	----	B	1 x 1 x $\frac{3}{4}$	37	58	B	2 x 2 x 1	118	215	C
$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	23 $\frac{1}{2}$	----	B	1 x 1 x 1	59	79	B	2 x 2 x $1\frac{1}{4}$	162	210	C
$\frac{1}{2} \times \frac{3}{8} \times \frac{1}{2}$	25	----	B	$1\frac{1}{4} \times 1 \times \frac{3}{4}$	73 $\frac{1}{2}$	----	C	2 x 2 x $1\frac{1}{2}$	149	236	C
$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	13 $\frac{1}{2}$	----	B	$1\frac{1}{4} \times 1 \times 1$	83	----	C	2 x 2 x 2	218	300	C
$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	23 $\frac{1}{2}$	----	B	$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{8}$	65	74	B	$2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$	----	350	C
$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	29 $\frac{1}{2}$	33 $\frac{1}{2}$	B	$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$	71 $\frac{1}{2}$	69	B	$2\frac{1}{2} \times 2\frac{1}{2} \times 2$	----	400	C
$\frac{3}{4} \times \frac{3}{8} \times \frac{1}{2}$	34 $\frac{1}{2}$	----	B	$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{4}$	86	71 $\frac{1}{2}$	C	$2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$	----	550	C
$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{8}$	26	----	B	$1\frac{1}{4} \times 1\frac{1}{4} \times 1$	92	85	C	3 x 3 x 2	----	600	C
$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$	36 $\frac{1}{2}$	----	B	$1\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{4}$	100	115	C	3 x 3 x $2\frac{1}{2}$	----	800	C
$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	32	34	B	$1\frac{1}{2} \times 1\frac{1}{4} \times 1\frac{1}{4}$	92	----	C	3 x 3 x 3	----	888	C
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	38 $\frac{1}{2}$	39	B	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$	85	----	B	$3\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$	----	950	C
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$	37 $\frac{1}{2}$	39	B	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$	87	94	B	4 x 4 x 4	----	1600	C
1 x $\frac{1}{2}$ x $\frac{3}{8}$	37	----	B	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{4}$	108	138	C	-----	-----	-----	-----
1 x $\frac{3}{4}$ x $\frac{3}{8}$	39	----	B	$1\frac{1}{2} \times 1\frac{1}{2} \times 1$	100	167 $\frac{1}{2}$	C	-----	-----	-----	-----

FOUR-WAY TEES.

Size.	Weight, Plain. Lbs. per 100.	Class.	Size.	Weight, Plain. Lbs. per 100.	Class.	Size.	Weight, Plain. Lbs. per 100.	Class.
$\frac{1}{2} \times \frac{3}{4}$	28 $\frac{1}{2}$	B	1	56 $\frac{1}{2}$	B	$1\frac{1}{2}$	153	----
$\frac{3}{4}$	46	B	$1\frac{1}{4}$	102	B	----	----	----

DROP TEES—FEMALE.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$	15 $\frac{1}{2}$	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	16	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	42	B
$\frac{3}{8} \times \frac{1}{4} \times \frac{1}{4}$	20 $\frac{1}{2}$	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	33	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$	49 $\frac{1}{2}$	B
$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$	21	B	$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{4}$	31	B	1 x $\frac{3}{4} \times \frac{3}{8}$	46	B
$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	16	B	$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{8}$	37 $\frac{1}{2}$	B	1 x 1 x $\frac{3}{8}$	43	B
$\frac{1}{2} \times \frac{3}{8} \times \frac{1}{4}$	21	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$	35	B	1 x 1 x $\frac{1}{2}$	58	B
$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	27	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	34	B	1 x 1 x $\frac{3}{4}$	63	B
$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$	26 $\frac{1}{2}$	B	-----	----	----	-----	----	----

The smallest size is the size of drop.

DROP TEES—MALE AND FEMALE.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4} \times \frac{1}{4} \times \frac{3}{8}$	17	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	26	B	1 x $\frac{3}{4} \times \frac{3}{8}$	44	B
$\frac{3}{8} \times \frac{1}{4} \times \frac{3}{8}$	14 $\frac{1}{2}$	B	$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{8}$	33	B	1 x 1 x $\frac{3}{8}$	37	B
$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	18 $\frac{1}{2}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	36	B	With drop 2 $\frac{1}{2}$ in. long.		
$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	18 $\frac{1}{4}$	B	-----	----	----	$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	25 $\frac{1}{2}$	B

In ordering, be particular to mention if Fittings are for steam or gas.

**LIST OF SIZES, WEIGHTS, AND CLASSIFICATION
OF
MALLEABLE IRON FITTINGS.**

REDUCING COUPLINGS.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4}$ x $\frac{1}{4}$	6 $\frac{1}{2}$	A	$1\frac{1}{4}$ x 1	53	C	$2\frac{1}{2}$ x $1\frac{1}{2}$	250	C
$\frac{3}{8}$ x $\frac{1}{4}$	9	A	$1\frac{1}{2}$ x $\frac{3}{8}$	60	B	$2\frac{1}{2}$ x 2	213	C
$\frac{1}{2}$ x $\frac{1}{4}$	12	A	$1\frac{1}{2}$ x $\frac{1}{2}$	68	C	3 x 1	325	C
$\frac{1}{2}$ x $\frac{3}{8}$	14	B	$1\frac{1}{2}$ x $\frac{3}{4}$	69	C	3 x $1\frac{1}{4}$	338	C
$\frac{3}{4}$ x $\frac{1}{4}$	21	B	$1\frac{1}{2}$ x 1	59	C	3 x $1\frac{1}{2}$	350	C
$\frac{3}{4}$ x $\frac{3}{8}$	21	B	$1\frac{1}{2}$ x $1\frac{1}{4}$	70	C	3 x 2	320	C
$\frac{3}{4}$ x $\frac{1}{2}$	22	B	2 x $\frac{3}{8}$	85	B	3 x $2\frac{1}{4}$	325	C
1 x $\frac{1}{4}$	33	B	2 x $\frac{1}{2}$	90	B	$3\frac{1}{2}$ x $1\frac{1}{2}$	513	C
1 x $\frac{3}{8}$	33	B	2 x $\frac{3}{4}$	102	C	$3\frac{1}{2}$ x 2	538	C
1 x $\frac{1}{2}$	36	B	2 x 1	125 $\frac{1}{2}$	C	$3\frac{1}{2}$ x $2\frac{1}{2}$	540	C
$1\frac{1}{4}$ x $\frac{3}{8}$	54 $\frac{1}{2}$	B	2 x $1\frac{1}{4}$	91	C	$3\frac{1}{2}$ x 3	545	C
$1\frac{1}{4}$ x $\frac{1}{2}$	53	B	2 x $1\frac{1}{2}$	108 $\frac{1}{2}$	C	4 x 2	650	C
$1\frac{1}{4}$ x $\frac{3}{4}$	47	C	$2\frac{1}{2}$ x $\frac{3}{4}$	225	B	4 x $2\frac{1}{2}$	700	C
			$2\frac{1}{2}$ x 1	182	C	4 x 3	650	C
			$2\frac{1}{2}$ x $1\frac{1}{4}$	225	C	4 x $3\frac{1}{2}$	682	C

In ordering, be particular to mention if Fittings are for steam or gas.

RETURN BENDS—Open Pattern.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4}$	35	B	$1\frac{1}{2}$	251	C
$\frac{3}{8}$	104	B	2	454	C
1	134	B	$2\frac{1}{2}$	832	C
$1\frac{1}{4}$	202 $\frac{1}{2}$	C	3	---	C

LOCKNUTS.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4}$	3	B	$1\frac{1}{4}$	27	C
$\frac{3}{8}$	5 $\frac{1}{2}$	B	$1\frac{1}{2}$	34	C
$\frac{1}{2}$	7 $\frac{1}{2}$	B	2	48 $\frac{1}{4}$	C
$\frac{3}{4}$	11 $\frac{1}{2}$	B	$2\frac{1}{2}$	107	C
1	19	B	3	139	C

RETURN BENDS—Close Pattern.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4}$	30 $\frac{1}{2}$	B	$1\frac{1}{2}$	228	C
$\frac{3}{8}$	54	B	2	333	C
1	88	B	3	400	C
$1\frac{1}{4}$	152	C	---	---	---

WASTE NUTS—Plain or Tinned.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4}$	3 $\frac{1}{2}$	B	$\frac{3}{4}$	9 $\frac{1}{4}$	B
$\frac{3}{8}$	6	B	1	13 $\frac{1}{4}$	B
$\frac{1}{2}$	7 $\frac{3}{4}$	B	---	---	---

WALL PLATES.

Size.	Weight, Lbs. per 100.	Class.
$\frac{3}{8}$	14	B

CAPS.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{1}{4}$	5 $\frac{1}{4}$	B	$1\frac{1}{2}$	70	C
$\frac{3}{8}$	8	B	2	97	C
$\frac{1}{2}$	11 $\frac{1}{2}$	B	$2\frac{1}{2}$	219	C
$\frac{3}{4}$	19	B	3	350	C
1	30	B	$3\frac{1}{2}$	575	C
$1\frac{1}{4}$	40	C	4	782	C

CHANDELIER LOOPS.

CHANDELIER HOOKS.

Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.	Class.
$\frac{3}{8}$	16 $\frac{5}{8}$	---	$\frac{3}{4}$	19	---
$\frac{1}{2}$	20 $\frac{1}{2}$	---	$\frac{1}{2}$	22 $\frac{5}{8}$	---



FIG. 183. ELBOW.



FIG. 184. SIDE OUTLET ELBOW.



FIG. 185. TEE.

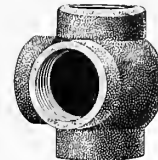


FIG. 186. SIDE OUTLET TEE.

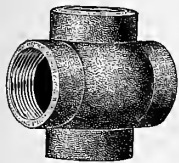


FIG. 187. CROSS.

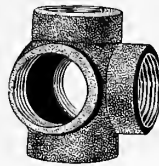


FIG. 188. SIDE OUTLET CROSS.



FIG. 190. ORNAMENT.

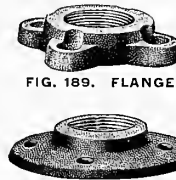


FIG. 189. FLANGE.



FIG. 191. CAST-IRON RAILING FLANGE.

MALLEABLE RAILING FITTINGS.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 183. ELBOW	EACH	.15	.18	.20	.35	.45	.72
FIG. 184. SIDE OUTLET ELBOW	EACH	.20	.23	.25	.40	.50	.80
FIG. 185. TEE	EACH	.20	.23	.25	.40	.50	.75
FIG. 186. SIDE OUTLET TEE	EACH	.30	.33	.35	.45	.55	.90
FIG. 187. CROSS	EACH	.30	.33	.35	.45	.58	1.00
FIG. 188. SIDE OUTLET CROSS	EACH	.35	.38	.40	.50	.65	1.35
FIG. 189. FLANGE	EACH	.14	.15	.15	.20	.28	.30
FIG. 190. ACORN ORNAMENT	EACH	.16	.18	.20	.25	.35	.90

CAST-IRON RAILING FLANGES—Fig. 191.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
DIAMETER	INCHES	3	$3\frac{1}{2}$	4	4	4	5	6
EACH		.14	.17	.21	.22	.30	.35	.55

BRASS FINISHED RAILING FITTINGS.

SIZE	INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 183. ELBOW	EACH	.80	1.20	1.60	2.50
FIG. 184. ELBOW, SIDE OUTLET	EACH	1.10	1.70	2.00	3.00
FIG. 185. TEE	EACH	1.10	1.70	2.00	3.00
FIG. 186. TEE, SIDE OUTLET	EACH	1.50	2.00	2.40	3.50
FIG. 187. CROSS	EACH	1.50	2.00	2.40	3.50
FIG. 188. CROSS, SIDE OUTLET	EACH	1.70	2.25	3.00	4.00
FIG. 189. FLOOR FLANGE	EACH	.40	.70	1.00	1.30
FIG. 190. ACORN ORNAMENT	EACH	2.00	2.50	3.25	4.50



FIG. 192.



FIG. 193.



FIG. 194.



FIG. 195.



FIG. 196.

45° ANGLE MALLEABLE IRON RAILING FITTINGS.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
FIG. 192. ELBOW	EACH	.40	.70	.90	1.44	2.00	3.00
SIDE OUTLET, NOT ILLUSTRATED	EACH	.50	.80	1.00	1.60	2.30	3.40
FIG. 193. ELBOW	EACH	.40	.70	.90	1.44	2.00	3.00
SIDE OUTLET, NOT ILLUSTRATED	EACH	.50	.80	1.00	1.60	2.30	3.40
FIG. 194. TEE	EACH	.50	.80	1.00	1.60	2.40	3.80
SIDE OUTLET, NOT ILLUSTRATED	EACH	.70	.90	1.10	1.80	2.80	4.30
FIG. 195. CROSS	EACH	.70	.90	1.16	2.00	3.00	4.50
SIDE OUTLET, NOT ILLUSTRATED	EACH	.80	1.00	1.30	2.70	3.50	5.20
FIG. 196. FLOOR FLANGE	EACH	.30	.40	.56	.60	1.00	1.50

Always furnished tapped right hand unless otherwise ordered.
 Right and left or left hand changed at 25 per cent additional.
 Angle Railing Fittings can be furnished in Brass.

THE "GRIFFIN" FOOT RAIL AND BRACKET.



FIG. 197. CORNER FITTING.



FIG. 198. FOOT RAIL AND BRACKET.



FIG. 199. END FINISH.

SIZE	ONE INCH	Plain Iron.	Bronzed Iron.	Galvanized Iron.	Artistic Brass.
BRACKETS	EACH	.50	.85	.85	3.50
CORNER FITTINGS	EACH	.50	.75	.75	3.00
END FINISH FITTINGS	EACH	.15	.25	.25	1.40



FIG. 200. CAST-IRON COUNTER BRACKET.



FIG. 201. HINGE FOR PIPE GATES.



FIG. 202. BRASS RAILING CAP.

RAILING TRIMMINGS.—Figs. 200, 201, and 202.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
COUNTER BRACKETS	EACH	.25	.30	.50	----
FINISHED BRASS CAPS	EACH	.20	.25	.35	----
HINGE FOR PIPE GATES	EACH	1.00	1.25	1.50	2.00

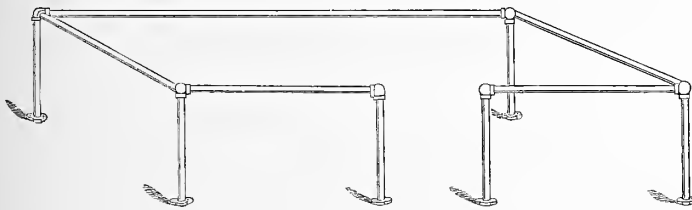


FIG. 203.

As the fittings do not need to be steam or water-tight, a sufficiently clean thread to screw up well and make a good job can be made by running a *left-hand tap* into any outlet tapped *right-hand*.

PLEASE READ THIS NOTICE WITH CARE.

To construct a Railing *two* pipes high, the upper outlet of all fittings used in lower pipes should be tapped with *left-hand thread*, but when orders are sent us without specifying how outlets are to be tapped, *all fittings will invariably be furnished right-hand*.

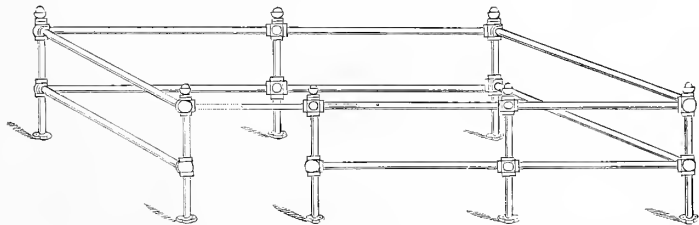


FIG. 204.

A neat and simple gate can be made by reducing with a bushing the outlets of the fittings on each side of the passageway, and then using a smaller size pipe to slide back and forward inside of the top rail, with a pin to prevent its running back too far. (See dotted line in cut.)

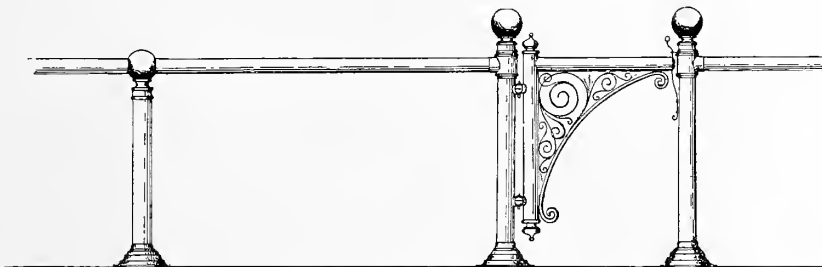


FIG. 205. DESIGN FOR BRASS RAILING.

Prices on Brass Posts, Gates, and all trimmings furnished upon application.

NIPPLES.



FIG. 206. CLOSE NIPPLE.



FIG. 207. SHOULDER NIPPLE.

TABLE OF SIZES AND LENGTHS KEPT IN STOCK.

LENGTH, INCHES.					SIZE.		PRICES.			PRICE OF EXTRA LONG NIPPLES.							
Close.	Short.	Long.			Inches.	Close or Short.	Long.			Inches.							
										5	6	7	8	9	10	11	12
3	1 1/2	2	2 1/2	3	3 1/2	1 1/8	.05	.07	.16	.17	.18	.19	.20	.21	.22	.23	.23
1 1/2	1 1/2	2	2 1/2	3	3 1/2	1 1/4	.05	.07	.16	.17	.18	.19	.20	.21	.22	.22	.23
1 1/2	1 1/2	2	2 1/2	3	3 1/2	3/8	.06	.09	.17	.18	.19	.20	.21	.22	.23	.23	.25
1 1/2	1 1/2	2	2 1/2	3	3 1/2	1/2	.07	.10	.18	.19	.20	.21	.22	.23	.23	.25	.27
1 1/2	2	2 1/2	3	3 1/2	4	3/4	.09	.11	.20	.21	.22	.23	.25	.27	.27	.29	.31
1 1/2	2	2 1/2	3	3 1/2	4	1	.10	.15	.22	.24	.27	.29	.31	.33	.33	.36	.40
1 1/2	2 1/2	3	3 1/2	4	4 1/2	1 1/4	.14	.20	.29	.31	.33	.35	.38	.40	.43	.43	.46
1 1/2	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.17	.25	.36	.38	.40	.42	.45	.48	.51	.51	.55
2	2 1/2	3	3 1/2	4	4 1/2	2	.25	.35	.44	.49	.54	.59	.64	.69	.74	.74	.79
2 1/2	3	3 1/2	4	4 1/2	5	2 1/2	.56	.75	---	.80	.85	.91	1.00	1.10	1.20	1.30	1.30
2 1/2	3	3 1/2	4	4 1/2	5	3	.75	.95	---	1.00	1.06	1.15	1.24	1.34	1.44	1.55	1.55
2 1/2	4	4 1/2	5	5 1/2	6	3 1/2	1.00	1.25	---	---	1.38	1.50	1.62	1.74	1.86	2.00	2.00
3	4	4 1/2	5	5 1/2	6	4	1.25	1.60	---	---	1.75	1.92	2.10	2.30	2.50	2.70	2.70
3	4	4 1/2	5	5 1/2	6	4 1/2	1.75	2.25	---	---	2.35	2.45	2.56	2.75	2.94	3.15	3.15
3 1/2	4 1/2	5	5 1/2	6	6 1/2	5	2.00	2.60	---	---	2.75	2.95	3.20	3.45	3.80	4.20	4.20
3 1/2	4 1/2	5	5 1/2	6	6 1/2	6	2.75	3.60	---	---	3.75	3.90	4.15	4.40	4.65	4.90	4.90
4	5	---	---	---	---	7	4.00	---	---	4.20	4.45	4.70	5.10	5.50	5.90	6.30	6.30
4	5	---	---	---	---	8	5.75	---	---	---	6.00	6.30	6.60	6.90	7.20	7.50	7.80
---	---	---	---	---	---	9	7.00	---	---	---	---	7.40	7.80	8.20	8.80	9.40	10.00
---	---	---	---	---	---	10	8.50	---	---	---	---	9.00	9.60	10.20	11.00	11.80	12.60
---	---	---	---	---	---	12	12.00	---	---	---	---	13.00	14.25	15.50	16.75	18.00	19.25

GALVANIZED NIPPLES.

LENGTH, INCHES.					SIZE.		PRICES.			PRICE OF EXTRA LONG NIPPLES.							
Close.	Short.	Long.			Inches.	Close or Short.	Long.			Inches.							
										4	5	6	7	8	9	10	12
1 1/2	1 1/2	2	2 1/2	3	3 1/2	1 1/4	.07	.09	.13	.18	.19	.20	.21	.22	.23	.24	.25
1 1/2	1 1/2	2	2 1/2	3	3 1/2	3/8	.08	.11	.15	.19	.20	.21	.22	.23	.24	.25	.27
1 1/2	1 1/2	2	2 1/2	3	3 1/2	1/2	.09	.13	.17	.21	.22	.23	.24	.25	.26	.28	.30
1 1/2	2	2 1/2	3	3 1/2	4	3/4	.11	.16	---	.25	.26	.27	.28	.30	.32	.34	.36
1 1/2	2	2 1/2	3	3 1/2	4	1	.13	.19	---	.26	.28	.31	.33	.35	.37	.40	.44
1 1/2	2 1/2	3	3 1/2	4	4 1/2	1 1/4	.17	.24	---	.33	.35	.37	.39	.42	.44	.47	.50
1 1/2	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.23	.31	---	.42	.44	.46	.48	.51	.54	.57	.61
2	2 1/2	3	3 1/2	4	4 1/2	2	.32	.40	---	.49	.54	.59	.64	.69	.74	.79	.84
2 1/2	3	3 1/2	4	4 1/2	5	2 1/2	.65	.85	---	---	.90	.95	1.01	1.10	1.20	1.30	1.40
2 1/2	3	3 1/2	4	4 1/2	5	3	1.00	1.20	---	---	1.25	1.31	1.40	1.49	1.59	1.69	1.80
2 1/2	4	4 1/2	5	5 1/2	6	3 1/2	1.25	1.50	---	---	---	---	1.75	1.87	1.99	2.11	2.25
3	4	4 1/2	5	5 1/2	6	4	1.45	1.90	---	---	---	---	2.22	2.40	2.60	2.80	3.00
3	4	4 1/2	5	5 1/2	6	4 1/2	1.90	2.40	---	---	---	---	2.60	2.71	2.90	3.09	3.30
3 1/2	4 1/2	5	5 1/2	6	6 1/2	5	2.40	3.00	---	---	---	---	3.35	3.60	3.85	4.20	4.60
3 1/2	4 1/2	5	5 1/2	6	6 1/2	6	3.50	4.40	---	---	---	---	4.70	4.95	5.20	5.45	5.70

RIGHT AND LEFT NIPPLES.

LENGTH, INCHES.					SIZE.	PRICES.		PRICE OF EXTRA LONG NIPPLES.									
Short.	Long.				Inches.	Short.	Long.	Inches.									
								4	5	6	7	8	9	10	11	12	
1½	2	2½	3	3½	¼	.10	.12	.16	.21	.22	.23	.24	.25	.26	.27	.28	
1½	2	2½	3	3½	⅜	.10	.14	.18	.22	.23	.24	.25	.26	.27	.28	.30	
1½	2	2½	3	3½	½	.12	.16	.20	.24	.25	.26	.27	.28	.29	.31	.33	
2	2½	3	3½	4	¾	.15	.20	----	.29	.30	.31	.32	.34	.36	.38	.40	
2	2½	3	3½	4	1	.18	.24	----	.31	.33	.36	.38	.40	.42	.45	.49	
2½	3	3½	4	4½	1¼	.24	.35	----	.44	.46	.48	.50	.53	.55	.58	.61	
2½	3	3½	4	4½	1½	.30	.46	----	.57	.59	.61	.63	.66	.69	.73	.76	
2½	3	3½	4	4½	2	.40	.60	----	.69	.74	.79	.84	.89	.94	.99	1.04	
3	3½	4	4½	5	2½	1.00	1.30	----	----	1.25	1.30	1.36	1.45	1.55	1.65	1.75	
3	3½	4	4½	5	3	1.25	1.60	----	----	1.65	1.71	1.80	1.89	1.99	2.09	2.20	
4	4½	5	5½	6	3½	1.50	2.00	----	----	----	----	2.25	2.37	2.49	2.61	2.75	
4	4½	5	5½	6	4	1.75	2.40	----	----	----	----	2.72	2.90	3.10	3.30	3.50	

GALVANIZED RIGHT AND LEFT NIPPLES.

SIZE	INCHES	¼	⅜	½	¾	1	1¼	1½	2	2½	3	3½	4
LONG	EACH	.14	.16	.19	.25	.28	.39	.52	.65	1.40	1.85	2.25	2.70

Nipples made to order from extra heavy pipe at double regular list.
Assorted close and short Nipples will always be sent unless otherwise ordered.



FIG. 208.

LONG SCREWS WITH COUPLING AND LOCKNUT FACED.

SIZE	INCHES	¼	⅜	½	¾	1	1¼	1½	2	2½	3
STANDARD LENGTH	INCHES	2½	3	3½	4	4½	5	5½	6	7	8
STANDARD LENGTH	EACH	.30	.35	.40	.55	.75	1.00	1.30	1.70	2.70	3.70

Long Screws, longer than standard, made to order and charged as cut pipe. Extra for threads, couplings, and locknuts.
Long Screws made to order from extra heavy pipe.
Locknut Nipples made to order and charged as cut pipe, threads extra.

STANDARD THREADS FOR WROUGHT-IRON PIPE.

SIZE INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
EACH . . . . .	.05	.05	.05	.05	.05	.06	.07	.08	.10	.15	.20	.25
SIZE INCHES	4	$4\frac{1}{2}$	5	6	7	8	9	10	12	14	15	----
EACH . . . . .	.35	.45	.55	.70	.85	1.00	1.25	1.50	2.50	3.50	5.00	----

LOCKNUT THREADS.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH		.10	.10	.10	.10	.12	.14	.16	.20	.30	.40



FIG. 209. WROUGHT-IRON COUPLING.

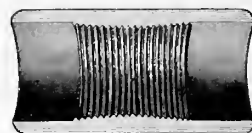


FIG. 210. RECESSED COUPLING.

WROUGHT-IRON COUPLINGS.—Fig. 209.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12	14
PLAIN	EACH	.05	.05	.06	.07	.10	.13	.17	.21	.28	.40	.60	.80	1.10	1.40	1.80	2.20	2.80	3.60	4.60
GALVANIZED	EACH	.06	.06	.08	.10	.13	.18	.25	.32	.40	.55	.80	1.10	1.40	1.80	2.20	2.80	3.60	4.60	5.80
WEIGHT	LBS. PER 100	3	6	9	15	25	37	56	81	125	162	307	450	675	900	1350	1800	2700	3600	5400

SIZE	INCHES	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12	14
PLAIN	EACH	.80	1.00	1.50	1.65	2.40	3.25	4.25	5.50	7.50	10.00	13.00
GALVANIZED	EACH	1.05	1.40	2.00	2.25	3.25	4.25	5.50	7.50	10.00	13.00	17.00
WEIGHT	LBS. EACH	3 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	6 $\frac{3}{4}$	8 $\frac{1}{2}$	11 $\frac{1}{2}$	15 $\frac{1}{4}$	20 $\frac{3}{4}$	27	40	54

RECESSED COUPLINGS.—Fig. 210.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
PLAIN	EACH	.24	.28	.33	.40	.50	.65	.85	1.30	1.65	2.05
GALVANIZED	EACH	.28	.33	.38	.50	.65	.85	1.10	1.60	1.95	2.45

Our Recessed Couplings are made extra heavy and longer than the common couplings.

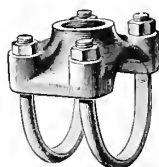


FIG. 211. MALLEABLE IRON SADDLE.

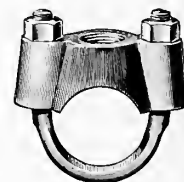


FIG. 212. CAST-IRON WATER PIPE CLAMP.

MALLEABLE IRON SADDLES.—Fig. 211.

SIZE FOR PIPE	INCHES	2	3	4	4 $\frac{1}{2}$	5	6	6	8	8	10	10	12	12
TAPPED FOR PIPE	INCHES	1 to 1 $\frac{1}{2}$	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	2 $\frac{1}{2}$ to 4	1 to 2	2 $\frac{1}{2}$ to 4	1 to 2	2 $\frac{1}{2}$ to 4	1 to 2	2 $\frac{1}{2}$ to 4
EACH		1.00	1.25	1.50	2.50	2.75	2.75	5.75	4.50	6.50	5.50	6.75	6.25	8.75

WROUGHT-IRON SADDLES. (Same as Fig. 211.)

SIZE FOR PIPE	INCHES	2	2 $\frac{1}{2}$	3	4	4 $\frac{1}{2}$	6	6	8	8	10	10	12	12
TAPPED FOR PIPE	INCHES	1 to 1 $\frac{1}{2}$	1 to 1 $\frac{1}{2}$	1 to 2	1 to 2	1 to 2	1 to 2	3 to 4	1 to 2	3 to 4	1 to 2	3 to 4	1 to 2	3 to 4
EACH		1.00	1.50	2.00	2.50	2.75	2.75	6.00	5.00	7.00	6.00	7.25	6.75	9.50

CAST-IRON WATER PIPE CLAMPS.—Fig. 212.

SIZE FOR PIPE	INCHES	2	3	3	4	4	5	5	6	6	7	7	8
TAPPED FOR PIPE	INCHES	$\frac{1}{2}$ to 1	$\frac{3}{4}$ to 1	1 $\frac{1}{4}$ to 2	$\frac{3}{4}$ to 1 $\frac{1}{4}$	1 $\frac{1}{2}$ to 2	$\frac{3}{4}$ to 1 $\frac{1}{4}$	1 $\frac{1}{2}$ to 2	$\frac{3}{4}$ to 1 $\frac{1}{4}$	1 $\frac{1}{2}$ to 2	$\frac{3}{4}$ to 1 $\frac{1}{4}$	1 $\frac{1}{2}$ to 2	2 to 3
EACH		.50	.65	.80	.90	1.00	1.00	1.10	1.15	1.25	1.25	1.50	3.00

BRASS STEAM AND WATER FITTINGS.

ROUGH AND FINISHED.

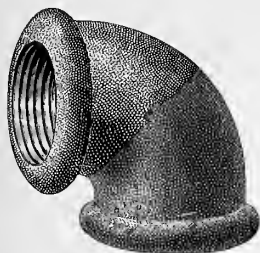


FIG. 213. ELBOW.

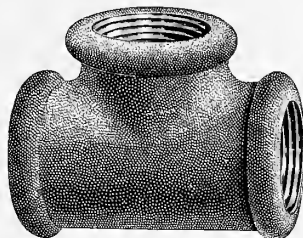


FIG. 214. TEE.

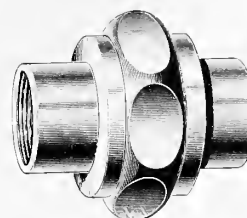


FIG. 215. GROUND FACE, FINISHED UNION.

ELBOWS.*

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
ROUGH	EACH	.10	.12	.16	.25	.35	.50	.85	1.15	1.50	3.00	5.00	7.00	10.00
FINISHED	EACH	.15	.18	.24	.35	.45	.65	1.10	1.50	2.00	3.75	6.50	9.00	12.50
45° ROUGH	EACH	----	.20	.25	.35	.50	.70	1.05	1.40	1.80	3.75	6.00	8.50	10.00
45° FINISHED	EACH	----	.30	.35	.50	.65	.85	1.25	1.75	2.30	4.50	7.50	9.00	12.50

TEES.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
ROUGH	EACH	.12	.15	.20	.30	.45	.70	1.00	1.25	1.75	4.00	6.00	9.00	13.00
FINISHED	EACH	.20	.25	.35	.50	.65	1.00	1.50	2.00	2.75	5.50	8.00	11.50	16.00

CROSSES.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
ROUGH	EACH	.15	.20	.30	.40	.55	.80	1.15	1.40	1.95	4.25	6.50	10.00	14.50
FINISHED	EACH	.30	.35	.55	.70	.85	1.25	1.90	2.50	3.50	6.25	9.50	13.00	18.00

REDUCERS.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
ROUGH	EACH	.14	.20	.30	.35	.50	.65	1.25
FINISHED	EACH	.20	.25	.35	.40	.60	.75	1.55

RETURN BENDS.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
CLOSE PATTERN, ROUGH	EACH	.40	.70	.90	1.25	2.00	2.75
CLOSE PATTERN, FINISHED	EACH	.60	.90	1.20	1.75	2.75	3.75
OPEN PATTERN, ROUGH	EACH	.50	.80	1.00	1.50	2.25	3.00
OPEN PATTERN, FINISHED	EACH	.70	1.00	1.30	2.00	3.00	4.00

UNIONS.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FINISHED	EACH	.35	.40	.55	.75	1.00	1.40	1.90	2.75	4.00	6.00	8.50

BRASS STEAM AND WATER FITTINGS.

ROUGH AND FINISHED.



FIG. 219. COUPLING.



FIG. 220. CAP.



FIG. 221. PLUG.

COUPLINGS, CAPS, AND PLUGS.—Figs. 219, 220, and 221.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
COUPLINGS, ROUGH	EACH	.08	.10	.15	.20	.30	.40	.60	.75	1.25	2.00	3.00
COUPLINGS, FINISHED	EACH	.13	.15	.20	.25	.35	.45	.70	.85	1.55	2.50	3.75
CAPS, ROUGH	EACH	.08	.10	.15	.20	.30	.40	.60	.75	1.25	2.00	3.00
CAPS, FINISHED	EACH	.13	.15	.20	.25	.35	.45	.70	.85	1.55	2.50	3.75
PLUGS, ROUGH	EACH	.06	.08	.10	.15	.20	.25	.40	.50	.90	1.50	2.25
PLUGS, FINISHED	EACH	.10	.12	.15	.20	.25	.30	.50	.70	1.20	2.00	3.00



FIG. 222. NIPPLE.



FIG. 223. LOCKNUT.



FIG. 224. BUSHING.

NIPPLES.—Fig. 222.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
CLOSE	EACH	.12	.15	.20	.25	.30	.40	.60	.90	1.25	2.50	5.00
ROUGH, TO 4 IN. LONG	EACH	.15	.20	.30	.35	.45	.60	.90	1.25	1.60	3.00	6.00
FINISHED, TO 4 IN. LONG	EACH	.20	.25	.35	.40	.50	.70	1.00	1.35	1.70	3.50	6.75

LOCKNUTS AND BUSHINGS.—Figs. 223 and 224.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	
LOCKNUTS, ROUGH	EACH	.08	.08	.10	.15	.20	.25	.40	.50	.90	1.75	2.75
LOCKNUTS, FINISHED	EACH	.10	.10	.12	.18	.23	.30	.45	.55	1.00	1.90	3.00
BUSHINGS	EACH	----	.07	.09	.13	.21	.38	.50	.67	.84	1.50	2.50

SEAMLESS DRAWN BRASS TUBING.

MADE TO CORRESPOND WITH IRON PIPE, AND TO FIT IRON PIPE FITTINGS.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	
WEIGHT PER FT. LBS.		.30	.43	.58	.80	1.17	1.67	2.42	2.92	4.17	5.	8.	10.	12.	16.	21.
PER POUND		.80	.60	.55	.50	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45

These Tubes are kept in stock up to 4 inch in 12-foot lengths. Special lengths to order.

We can furnish Copper Tubes same sizes as above. Brass and Copper Tubes are always shipped without threads or couplings, unless otherwise specified. Threads and couplings always charged extra.

CAST-IRON DRAINAGE FITTINGS.**SCREWED FOR IRON PIPE.**

The necessity for better and safer House Drainage has induced Sanitary Engineers to recommend and adopt Wrought-Iron Screwed-Jointed Pipes in place of the ordinary Cast-Iron Lead-Jointed Soil Pipes, preventing thereby accumulation of Sewer Gas in houses, caused by leaky lead joints.

We manufacture Drainage Fittings which are specially adapted to the new system of House Drainage.

These Fittings have an interior shoulder, and are made with same inside capacity as the inside diameter of the Pipe, thus securing an unobstructive interior surface, allowing all solid matters to pass without choking up the Pipes.

The Fittings are coated with heated Asphaltum.



FIG. 225.
LONG TURN ELBOW.

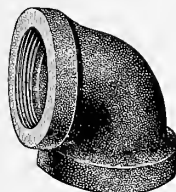


FIG. 226.
SHORT TURN ELBOW.

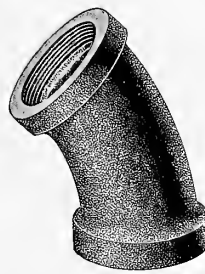


FIG. 227.
LONG TURN ELBOW, 45°.

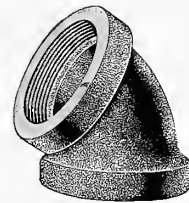


FIG. 228.
SHORT TURN ELBOW, 60°.

LONG AND SHORT TURN ELBOWS.

SIZE - - - - - INCHES	1½	2	3	4	5	6	7	8	10
LONG TURN ELBOWS - - - - - EACH	.60	.70	1.30	2.00	3.60	5.20	8.50	10.00	12.00
SHORT TURN ELBOWS - - - - - EACH	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00
LONG TURN ELBOWS, 45°, ½-BEND EACH	---	---	1.45	2.25	4.00	5.75	9.50	11.00	13.50
SHORT TURN ELBOWS, 60°, ½-BEND EACH	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00



FIG. 229. 1-8 BEND, 45°.

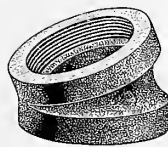


FIG. 230. 1-16 BEND, 22 1/2°.

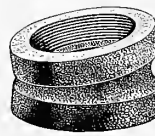


FIG. 231. 1-32 BEND, 11 1/4°.

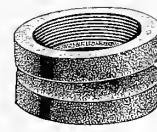


FIG. 232. 1-64 BEND, 5 5/8°.

SHORT TURN ELBOWS.

SIZE - - - - - INCHES	1½	2	3	4	5	6	7	8	10
EACH - - - - -	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00

Sizes differing from above can be furnished, but will be charged extra.

CAST-IRON DRAINAGE FITTINGS.



FIG. 233. 45° Y BRANCH.



FIG. 234. 45° REDUCING Y BRANCH.

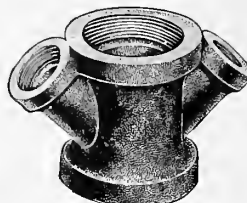


FIG. 235. 45° DOUBLE Y BRANCH.

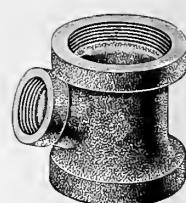


FIG. 236. 60° Y BRANCH.

Y BRANCHES.

SIZE	INCHES	1½	2	3	4	5	6	7	8	10
FIG. 233. 45° Y BRANCHES	EACH	.80	1.00	1.70	2.60	3.50	5.50	12.00	15.00	21.00
FIG. 235. 45° DOUBLE Y BRANCHES	EACH		1.30	2.20	3.10	4.25	6.50	15.00	18.00	25.00

REDUCING Y BRANCHES.

SIZE	INCHES	2 x 1½	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3	5 x 4	6 x 2	6 x 4	6 x 5	8 x 4	8 x 6
FIG. 234. 45° REDUCING Y BRANCHES	EACH	1.00	1.70	2.60	2.60	3.50	3.50	3.50	5.50	5.50	5.50	15.00	15.00
FIG. 235. 45° DOUBLE Y BRANCHES	EACH	1.30	2.20	3.10		4.25							
FIG. 236. 60° Y BRANCHES	EACH	1.00	1.70	2.60	2.60	4.50	4.50	4.50	7.00	7.00	7.00	15.00	15.00



FIG. 237. 3-WAY ELBOW.

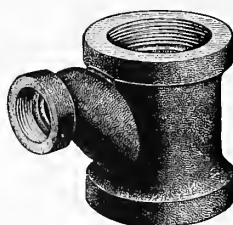


FIG. 238. Y BRANCH, T PATTERN.

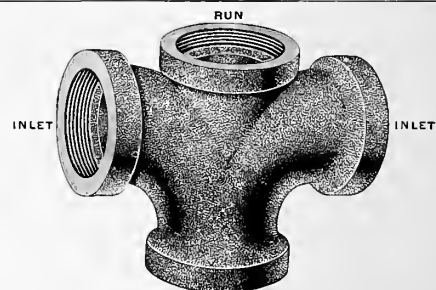


FIG. 239. CROSS.

ELBOWS AND CROSSES.—Figs. 237 and 239.

SIZE	INCHES	2	3	4	5	5 x 4	6	6 x 5
FIG. 237. 3-WAY ELBOWS	EACH	1.30	2.20	3.10	4.25	4.25	6.50	6.50
FIG. 239. CROSSES	EACH		3.00	4.00	6.50	6.50	8.50	8.50

Y BRANCHES, T PATTERN, 90°.—Fig. 238.

SIZE	INCHES	1½	2	3	4	5	6	7	8	10
FIG. 238. Y BRANCHES, T PATTERN	EACH	1.15	1.35	2.25	3.50	5.50	7.00	11.50	14.50	20.00
SIZE	INCHES	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3	5 x 4	6 x 2	6 x 4	6 x 5
FIG. 238. REDUCING SIZES	EACH	2.25	3.50	3.50	5.50	5.50	5.50	7.00	7.00	7.00

Sizes differing from above can be furnished, but will be charged extra.

CAST-IRON DRAINAGE FITTINGS.



FIG. 240. CLOSET TEE WITH INLETS ON BOTH SIDES AND TOP.

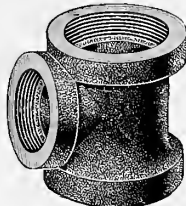


FIG. 241. PLAIN TEE.

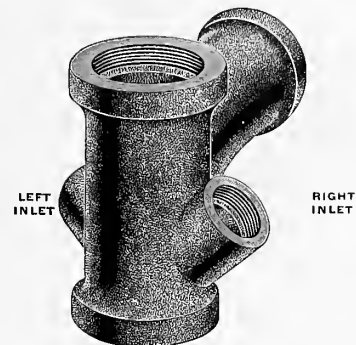


FIG. 242. CLOSET TEE WITH INLETS ON BOTH SIDES.

CLOSET TEES.—Fig. 240.

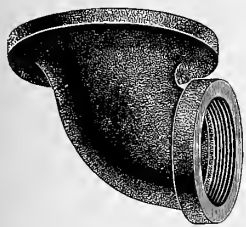
SIZE	INCHES	3	4	5 x 4	6 x 4
WITH 2-INCH RIGHT-HAND INLET ON SIDE AND 2-INCH TOP INLET, EACH		----	5.50	7.00	9.00
WITH 2-INCH LEFT-HAND INLET ON SIDE AND 2-INCH TOP INLET . . . EACH		----	5.50	7.00	9.00
WITH 2-INCH INLETS ON BOTH SIDES AND 2-INCH TOP INLET . . . EACH		----	6.00	7.50	10.00
WITH 2-INCH RIGHT-HAND INLET ON SIDE EACH		3.00	3.50	6.50	8.00
WITH 2-INCH LEFT-HAND INLET ON SIDE EACH		3.00	3.50	6.50	8.00

PLAIN TEES.—Fig. 241.

SIZE	INCHES	1½	2	2 x 1½	3	3 x 2	4	4 x 2	4 x 3	5	5 x 2	5 x 3	6	6 x 4	7	8	10
EACH		.75	.90	.90	1.40	1.40	2.30	2.30	2.30	4.00	4.00	4.00	6.00	6.00	9.00	12.00	18.00

CLOSET TEES.—Fig. 242.

SIZE	INCHES	3	4	5 x 4	6 x 4
WITH 2-INCH INLETS ON BOTH SIDES EACH		3.50	4.00	7.00	10.00

FIG. 243.
CLOSET ELBOW, WITH FLANGE.FIG. 244.
CLOSET ELBOW.FIG. 245.
CLOSET FLANGE—IRON.FIG. 246.
CLOSET FLANGE—BRASS.

CLOSET ELBOWS AND FLANGES.

SIZE	INCHES	4	4 x 5	5
FIG. 243. WITH FLANGE 10 INCHES IN DIAMETER EACH		2.50	----	----
FIG. 244 EACH		----	3.70	----
FIG. 245. IRON FLANGE 10 INCHES IN DIAMETER EACH		----	----	1.30
FIG. 246. BRASS FLANGE 7½ INCHES IN DIAMETER EACH		----	----	3.20

Sizes differing from above can be furnished, but will be charged extra.

CAST-IRON DRAINAGE FITTINGS.

FIG. 247.
REDUCER.FIG. 248.
FOR CAPPING AIR INLET PIPES.FIG. 249.
ROOF CONNECTION.FIG. 250.
BRASS SOLDERING NIPPLE

REDUCERS.—Fig. 247.

SIZE	INCHES	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3	5 x 4	6 x 4	6 x 5	8 x 6
EACH		1.00	1.50	1.50	2.00	2.00	2.00	3.00	3.00	5.00

Figs. 248, 249, and 250.

SIZE	INCHES	1	1½	1½	2	3	4	5	6
FIG. 248. FOR CAPPING AIR INLET PIPES	EACH	---	---	---	---	1.30	1.50	2.00	---
FIG. 249. ROOF CONNECTIONS	EACH	---	---	---	.50	.80	1.00	1.20	2.00
FIG. 250. BRASS SOLDERING NIPPLES	EACH	.40	.60	.80	1.15	2.30	4.00	---	---

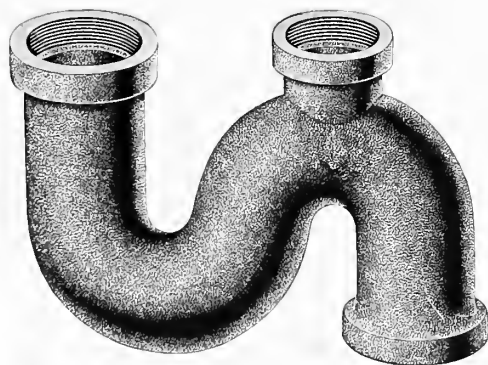


FIG. 251. S TRAP.

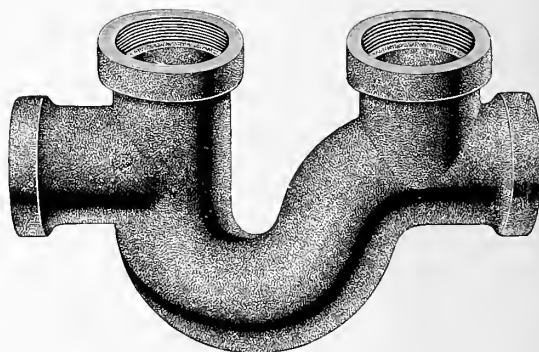


FIG. 252. RUNNING TRAP

TRAPS.—Figs. 251 and 252.

SIZE	INCHES	2	3	4	5	6	8
S TRAPS	EACH	3.50	4.00	6.50	10.00	20.00	---
HALF S TRAPS	EACH	2.25	3.00	4.50	7.50	14.00	22.00
RUNNING TRAPS	EACH	2.40	3.50	5.00	8.00	15.00	25.00

Sizes differing from above can be furnished, but will be charged extra.



FIG. 254. LAG SCREW.



FIG. 255. LAG SCREW HOOK.



FIG. 256. LAG SCREW END.

LAG SCREWS WITH SQUARE HEADS.—Fig. 254.
PRICES PER HUNDRED.

DIAMETER - -	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
LENGTH, INCHES.							
2½	3.50	4.50	5.00	7.05	10.20	-----	-----
3	3.70	4.75	5.35	7.60	10.95	16.00	-----
3½	3.90	5.00	5.70	8.15	11.70	17.00	22.60
4	4.10	5.25	6.05	8.70	12.45	18.00	24.00
5	4.50	5.75	6.75	9.80	13.95	20.00	26.80
6	4.90	6.25	7.50	10.90	15.50	22.00	29.60
7	-----	6.75	8.20	12.00	17.00	24.00	32.40
8	-----	7.25	8.90	13.10	18.50	26.00	35.20
9	-----	7.75	9.60	14.20	20.00	28.00	38.00
10	-----	-----	10.30	15.30	21.50	30.00	40.80
12	-----	-----	11.70	17.50	24.50	34.00	46.40

Lag Screw Hooks, Fig. 255, same list price. Lag Screw Ends, Fig. 256, same list price.

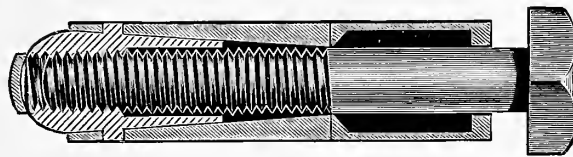


FIG. 257. SECTIONAL.

THE PERFECT EXPANSION CASE BOLT.—Fig. 257.

DIAMETER - -	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
LENGTH, INCHES.							
1½	8.40	-----	-----	-----	-----	-----	-----
2	8.45	-----	-----	-----	-----	-----	-----
2½	8.50	-----	-----	-----	-----	-----	-----
3	8.55	-----	-----	-----	-----	-----	-----
3½	8.60	12.20	-----	-----	-----	-----	-----
4	8.65	12.30	18.87	25.87	34.23	-----	-----
4½	8.70	12.40	19.05	26.15	34.60	42.40	-----
5	8.75	12.50	19.22	26.47	34.98	42.90	54.30
5½	-----	12.60	19.40	26.70	35.35	43.40	54.95
6	-----	12.70	19.57	26.97	35.73	43.90	55.60
6½	-----	12.80	19.75	27.25	36.10	44.40	56.25
7	-----	12.90	19.92	27.52	36.48	44.90	56.90
7½	-----	13.00	20.10	27.80	36.85	45.40	57.55
8	-----	13.10	20.30	28.10	37.25	45.90	58.20
9	-----	-----	20.65	28.65	38.00	47.90	59.30
10	-----	-----	21.00	29.20	38.75	48.90	60.80
11	-----	-----	21.35	29.75	39.50	49.90	62.10
12	-----	-----	21.70	30.30	40.25	50.90	63.40
LENGTH OF CASE -	1½	3	3½	4	4	4½	5
DIAMETER OF CASE	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	1 $\frac{3}{16}$	1 $\frac{3}{16}$	1 $\frac{5}{16}$	1½

BRASS VALVES.

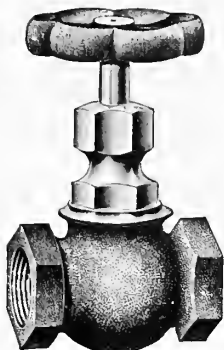


FIG. 258. GLOBE VALVE, SCREWED.

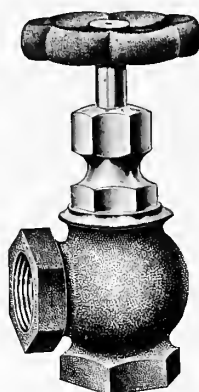


FIG. 259. ANGLE VALVE, SCREWED.

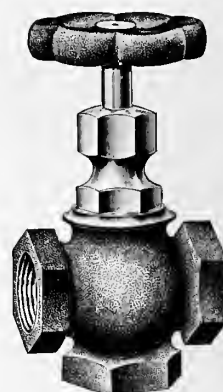


FIG. 260. CROSS VALVE.

GLOBE AND ANGLE VALVES, SCREWED.—Figs. 258 and 259.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
EACH		.60	.60	.75	1.00	1.35	1.80	2.80	3.90	5.90	11.25	16.00	30.00	40.00
APPROXIMATE WEIGHT	LBS. OZS.				1.00	1.08	2.03	3.00	4.07	6.08	10.12	16.12	----	----

CROSS VALVES, SCREWED.—Fig. 260.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH		.85	1.00	1.50	2.00	2.50	3.50	5.00	8.00	16.00	24.00

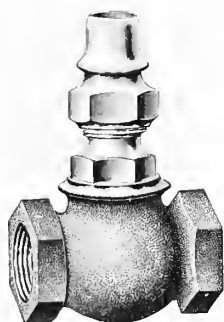


FIG. 261. GLOBE VALVE WITH LOCK SHIELD.



FIG. 262. ANGLE VALVE WITH LOCK SHIELD.

LOCK SHIELD GLOBE AND ANGLE VALVES.—Figs. 261 and 262.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
ROUGH BODY, PLAIN	EACH	1.10	1.35	1.60	2.25	3.25	4.85
ROUGH BODY, NICKEL-PLATED ALL OVER	EACH	1.40	1.65	1.95	2.65	3.70	5.35
KEYS	EACH	.20	.20	.20	.20	.20	.20

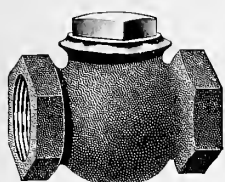
BRASS VALVES.

FIG. 263. HORIZONTAL CHECK VALVE.



FIG. 264. VERTICAL CHECK VALVE



FIG. 265. ANGLE CHECK VALVE.

CHECK VALVES.—Figs. 263, 264, and 265.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH		.50	.50	.60	.85	1.15	1.55	2.30	3.25	5.20	10.00	14.00
AVERAGE WEIGHT	LBS. OZS.	----	----	----	.05	1.00	1.05	2.03	3.00	4.08	----	----

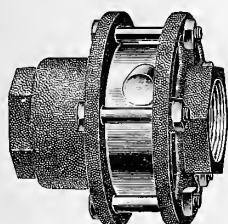


FIG. 266. STRAIGHTWAY CHECK VALVE.

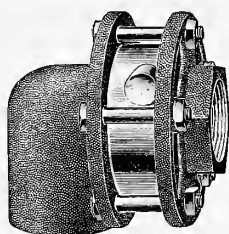


FIG. 267. ANGLE CHECK.

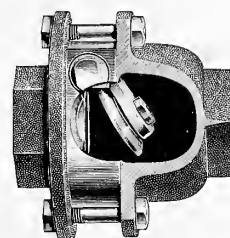


FIG. 268. SECTIONAL VIEW.

STRAIGHTWAY SWINGING CHECK VALVES.—Figs. 266, 267, and 268.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10
SCREWED ENDS	EACH	1.25	1.50	1.90	3.00	4.00	5.75	10.00	12.50	16.00	18.00	25.50	29.00	35.00	51.00	64.00	----
FLANGED ENDS	EACH	----	----	----	----	----	----	11.00	14.00	18.00	20.00	28.00	32.00	38.00	54.00	68.00	85.00

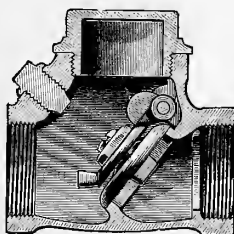


FIG. 269. SECTIONAL.

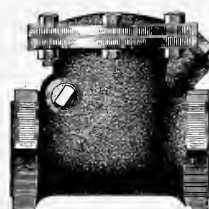


FIG. 270. SWINGING CHECK VALVE.

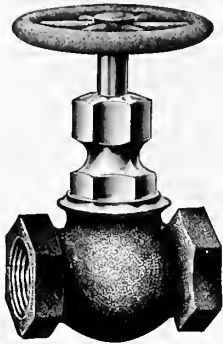
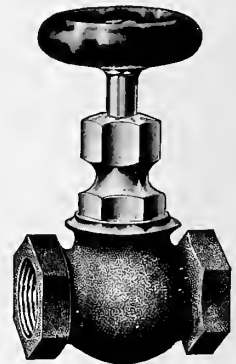
PRATT & CADY SWINGING CHECK VALVES—STEAM METAL.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
HORIZONTAL	EACH	1.25	1.25	1.30	1.75	2.25	3.25	4.25	6.25	11.50	16.00
ANGLE	EACH	----	----	1.30	1.75	2.25	3.25	4.25	6.25	----	----

IRON BODY.

SIZE	INCHES	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8	10	12
SCREWED, FLANGED, OR BELL ENDS	EACH	6.25	10.00	12.00	16.00	18.00	25.00	32.00	41.00	50.00	65.00	95.00

BRASS VALVES WITH JENKINS DISC.

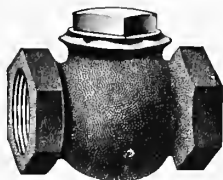
FIG. 271.
GLOBE VALVE WITH JENKINS DISC.FIG. 272.
ANGLE VALVE WITH JENKINS DISC.FIG. 273.
GLOBE VALVE WITH JENKINS DISC, WOOD WHEEL.

GLOBE AND ANGLE VALVES.—Figs. 271 and 272.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH		.80	1.00	1.25	1.75	2.50	3.35	4.60	7.00	14.00	20.00

GLOBE AND ANGLE VALVES WITH JENKINS DISC, WOOD WHEEL.—Fig. 273.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
ROUGH BODY, PLAIN	EACH	2.00	2.50	3.20	4.50	6.25	10.50
ROUGH BODY, PLATED TRIMMINGS	EACH	2.25	2.70	3.50	4.75	6.50	10.75
ROUGH BODY, PLATED ALL OVER	EACH	2.50	2.85	3.65	4.90	6.75	11.00
FINISHED ALL OVER	EACH	2.50	3.05	3.80	5.25	7.25	12.00
FINISHED AND PLATED ALL OVER	EACH	3.00	3.40	4.25	5.65	7.75	12.50

FIG. 274.
HORIZONTAL CHECK VALVE WITH JENKINS DISC.FIG. 275.
VERTICAL CHECK VALVE WITH JENKINS DISC.FIG. 276.
ANGLE CHECK VALVE WITH JENKINS DISC.

CHECK VALVES WITH JENKINS DISC.—Figs. 274, 275, and 276.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH		1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	20.50

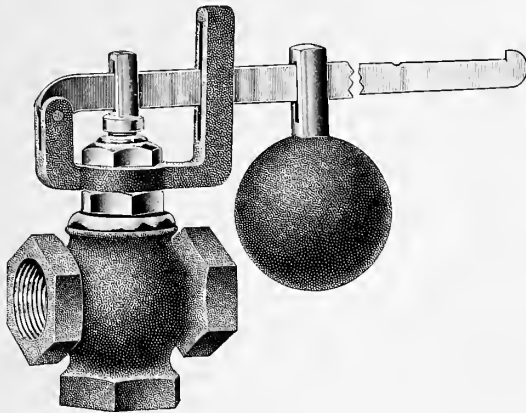
BRASS VALVES.

FIG. 277. SAFETY VALVE.



FIG. 278. LOW-PRESSURE SAFETY VALVE.

SAFETY VALVES, STEAM METAL.—Fig. 277.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
BRASS DISC	EACH	2.00	2.25	2.75	3.50	5.00	7.00	8.50	12.00	20.00	30.00
JENKINS DISC	EACH	----	----	4.12	4.95	5.50	8.25	10.15	15.40	----	----

LOW-PRESSURE SAFETY VALVES, STEAM METAL.—Fig. 278.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH		2.50	3.00	4.00	5.00	6.50

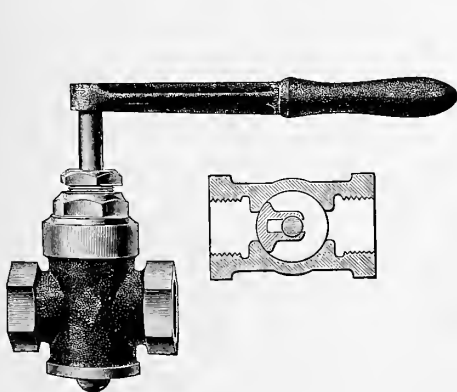


FIG. 279. THROTTLE VALVE.

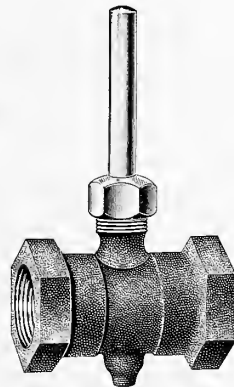


FIG. 280. BUTTERFLY VALVE.



FIG. 281. VACUUM VALVE.

THROTTLE, BUTTERFLY, AND VACUUM VALVES.—Figs. 279, 280, and 281.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
THROTTLE VALVES, STEAM METAL	EACH	----	----	----	----	9.00	11.00	13.00	20.00	30.00	----
BUTTERFLY VALVES	EACH	----	----	----	----	3.50	4.50	5.50	8.00	11.00	16.00
VACUUM VALVES	EACH	1.00	1.25	1.50	2.00	2.50	----	----	----	----	----

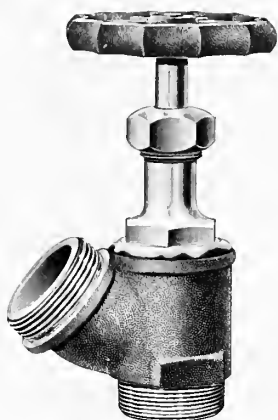
HOSE VALVES.

FIG. 282. HOSE VALVE, WHEEL HANDLE.

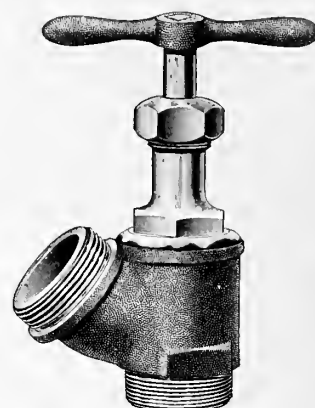


FIG. 283. HOSE VALVE, TEE HANDLE.

HOSE VALVES (BRASS).—Figs. 282 and 283.

SIZE INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
ROUGH BODY, PLAIN EACH	3.25	4.00	5.50	8.00	10.00
ROUGH BODY, NICKEL-PLATED ALL OVER EACH	3.75	4.60	6.25	9.00	11.25

HOSE VALVES (FINISHED BRASS WHEEL).—Fig. 282.

SIZE INCHES	2	2 $\frac{1}{2}$
POLISHED BRASS ALL OVER EACH	11.50	14.50
POLISHED AND NICKEL-PLATED ALL OVER EACH	12.75	16.00

These Valves have standard iron pipe thread on bottom and Chicago standard hose thread on side, 1 to 2 inch inclusive. The 2 $\frac{1}{2}$ inch has the Chicago Fire Department thread on side. Can be furnished with other threads than those specified when wanted.

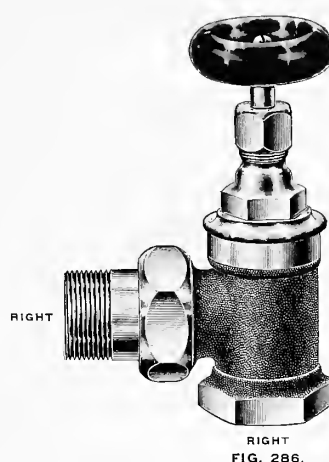


FIG. 284. GARDEN HOSE VALVE.

GARDEN HOSE VALVES (BRASS).—Fig. 284.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
ROUGH BODY, FINISHED TRIMMINGS EACH	1.25	1.65	2.20	3.40	4.90	7.20

These Valves have standard iron pipe thread on bottom, and are made with either Chicago or California hose thread on side. Can be furnished with other threads than those specified when so ordered.

RADIATOR VALVES.**QUICK-OPENING STEAM VALVES.—Fig. 285.**

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
BRASS SEAT, ROUGH BODY, NICKEL-PLATED TRIMMINGS	EACH	1.85	2.40	3.60	4.85	7.25
BRASS SEAT, ROUGH BODY, NICKEL-PLATED ALL OVER	EACH	1.95	2.65	3.70	5.00	7.75
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS	EACH	2.70	3.50	4.75	6.50	10.75
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER	EACH	2.85	3.65	4.90	6.75	11.00
EXTRA JENKINS DISCS	EACH	.10	.12	.18	.25	.36

QUICK-OPENING STEAM VALVES.—Fig. 286.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
BRASS SEAT, ROUGH BODY, NICKEL-PLATED TRIMMINGS	EACH	2.60	3.35	4.90	6.65	10.25
BRASS SEAT, ROUGH BODY, NICKEL-PLATED ALL OVER	EACH	2.85	3.65	5.05	7.10	10.85
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS	EACH	3.75	4.65	6.25	8.00	12.85
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER	EACH	3.80	4.75	6.40	8.10	13.10
EXTRA JENKINS DISCS	EACH	.10	.12	.18	.25	.36

Valves with Jenkins Disc will always be sent unless otherwise specified.

QUICK-OPENING HOT WATER VALVES.—Fig. 285.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
ROUGH BODY, NICKEL-PLATED TRIMMINGS	EACH	1.60	2.25	3.25	4.50	7.00
ROUGH BODY, NICKEL-PLATED ALL OVER	EACH	1.95	2.65	3.70	5.00	7.75

QUICK-OPENING HOT WATER VALVES.—Fig. 286.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
ROUGH BODY, NICKEL-PLATED TRIMMINGS	EACH	2.45	3.25	4.50	6.50	10.00
ROUGH BODY, NICKEL-PLATED ALL OVER	EACH	2.85	3.65	5.05	7.10	10.85

Valves will always be sent tapped as above unless specified otherwise.

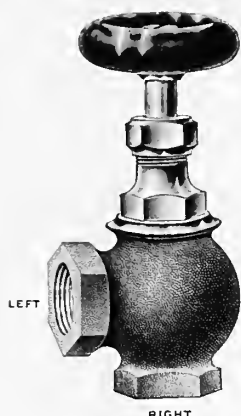


FIG. 289. RADIATOR VALVE, FEMALE.

RADIATOR VALVES.

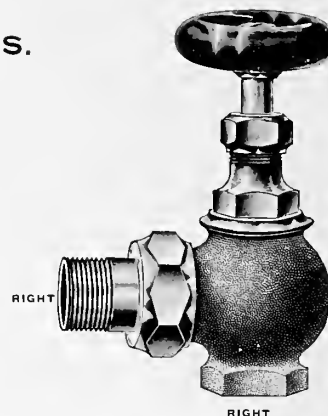


FIG. 290. RADIATOR VALVE, WITH UNION.

RADIATOR VALVES.—Figs. 289 and 290.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
BRASS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, FEMALE	EACH	1.55	1.85	2.50	3.50	4.80	7.50
BRASS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, FEMALE	EACH	1.65	1.95	2.65	3.70	5.00	7.75
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, FEMALE	EACH	2.25	2.70	3.50	4.75	6.50	10.75
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, FEMALE	EACH	2.50	2.85	3.65	4.90	6.75	11.00
BRASS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, WITH UNION	EACH	2.30	2.75	3.50	4.85	6.90	10.50
BRASS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, WITH UNION	EACH	2.40	2.85	3.65	5.05	7.10	10.85
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, WITH UNION	EACH	3.00	3.75	4.65	6.25	8.00	12.85
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, WITH UNION	EACH	3.20	3.80	4.75	6.40	8.10	13.10

Radiator Valves can be furnished tapped differently, if specially ordered.

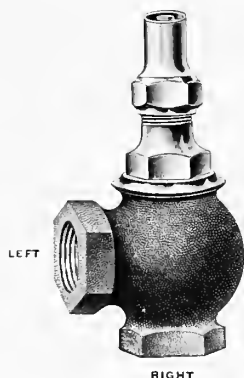


FIG. 291. LOCK SHIELD RADIATOR VALVE, FEMALE.



FIG. 292. RADIATOR KEY.



FIG. 293. LOCK SHIELD RADIATOR VALVE, WITH UNION.

LOCK SHIELD RADIATOR VALVES.—Figs. 291 and 293.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
BRASS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, FEMALE	EACH	1.55	1.85	2.50	3.50	4.80	7.50
BRASS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, FEMALE	EACH	1.65	1.95	2.65	3.70	5.00	7.75
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, FEMALE	EACH	2.25	2.70	3.50	4.75	6.50	10.75
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, FEMALE	EACH	2.50	2.85	3.65	4.90	6.75	11.00
BRASS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, WITH UNION	EACH	2.30	2.75	3.50	4.85	6.90	10.50
BRASS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, WITH UNION	EACH	2.40	2.85	3.65	5.05	7.10	10.85
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS, WITH UNION	EACH	3.00	3.75	4.65	6.25	8.00	12.85
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER, WITH UNION	EACH	3.20	3.80	4.75	6.40	8.10	13.10

NICKEL-PLATED KEYS, EXTRA ————— EACH .40

Radiator Valves can be furnished tapped differently, if specially ordered.

RADIATOR VALVES.

WHEN ORDERING, STATE IF RIGHT OR LEFT
HAND VALVES ARE WANTED.

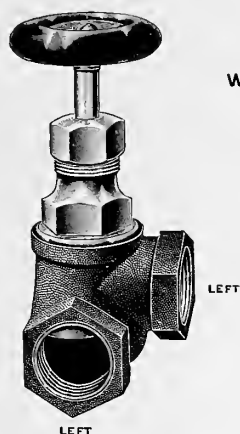


FIG. 294. RIGHT-HAND CORNER VALVE.

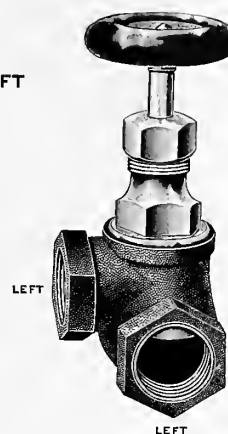


FIG. 295. LEFT-HAND CORNER VALVE.

CORNER RADIATOR VALVES WITH JENKINS DISCS.—Figs. 294 and 295.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS . . EACH		3.00	3.85	5.25	7.25	11.85
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER . . EACH		3.15	4.00	5.50	7.50	12.10

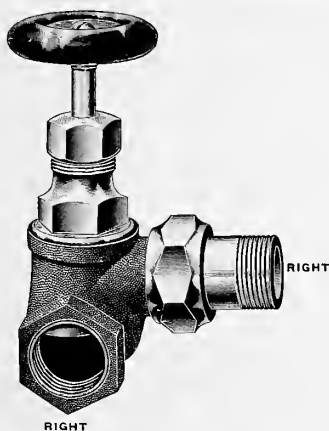


FIG. 296. RIGHT-HAND CORNER VALVE WITH UNION.

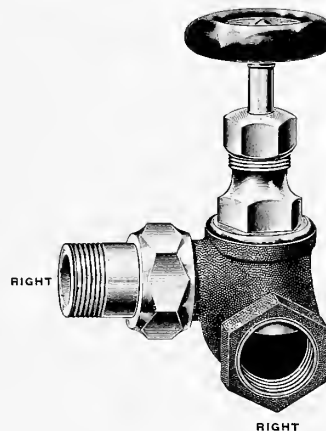


FIG. 297. LEFT-HAND CORNER VALVE WITH UNION.

CORNER RADIATOR VALVES WITH UNION AND JENKINS DISCS.—Figs. 296 and 297.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
JENKINS DISC, ROUGH BODY, NICKEL-PLATED TRIMMINGS . . EACH		4.15	5.15	6.90	8.80	14.15
JENKINS DISC, ROUGH BODY, NICKEL-PLATED ALL OVER . . EACH		4.20	5.25	7.05	8.95	14.45

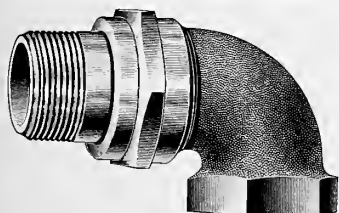


FIG. 298. UNION RADIATOR ELBOW.

UNION RADIATOR ELBOWS.—Fig. 298.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
ROUGH BODY, PLATED ALL OVER . . EACH		2.00	2.50	3.20	4.00
FINISHED AND PLATED ALL OVER . . EACH		2.40	3.00	3.90	4.85



FIG. 299.



FIG. 300.

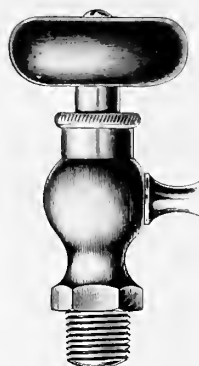


FIG. 301.

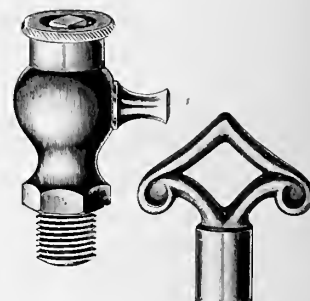


FIG. 302.

RADIATOR AIR VALVES. (1-8 inch only.)

FIGURE		299	300	301	302
NICKEL-PLATED	EACH	.35	.45	.70	.50
KEYS, NICKEL-PLATED, EXTRA	NET EACH	----	----	----	.06

No. 1.
FIG. 303.No. 2.
FIG. 304.No. 3.
FIG. 305.No. 3A.
FIG. 306.No. 5.
FIG. 307.No. 6.
FIG. 308.No. 6. CONTROLLER
ATTACHMENT.
FIG. 309.**MARSH AUTOMATIC AIR VALVES.**

FIGURE		303	304	305	306	307	308	309
NICKEL-PLATED	EACH	1.15	1.25	1.15	1.25	1.50	1.25	1.40

All $\frac{1}{2}$ -inch connections except No. 1, $\frac{1}{4}$ -inch.

FIG. 310.



FIG. 311.



FIG. 312.

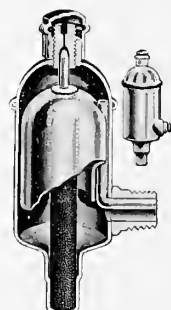


FIG. 313.



FIG. 314.

VAN AUKEN DUPLEX AUTOMATIC AIR VALVES.

FIGURE		310	311	312	313	314
NICKEL-PLATED	EACH	1.15	1.15	1.15	1.55	1.35

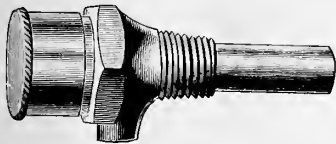
RADIATOR AIR VALVES.

FIG. 315.

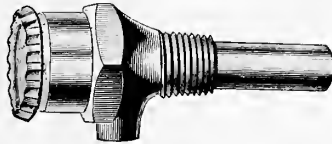


FIG. 316.

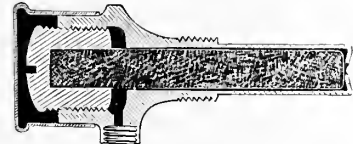


FIG. 317. SECTIONAL.

VICTOR AUTOMATIC AIR VALVES.

NICKEL-PLATED
NICKEL-PLATED, WITH PIPE CONNECTION

PER DOZEN
PER DOZEN

7.50
9.00

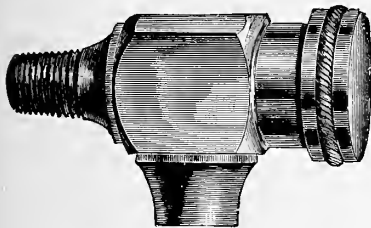


FIG. 318. JENKINS AIR VALVE.



FIG. 319. DRIP CUP.

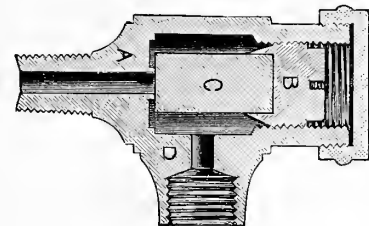


FIG. 320. JENKINS AIR VALVE, SECTIONAL.

JENKINS AUTOMATIC AIR VALVES. (1-8 inch only.)

FIGURE	318	319
NICKEL-PLATED PER DOZEN	7.50	2.00

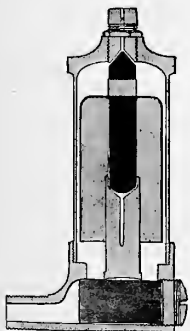


FIG. 321. HAYTHORN AIR VALVE.



FIG. 322. VAN AUKEN AIR VALVE.



FIG. 323. VAN AUKEN AIR VALVE.

AUTOMATIC AIR VALVES.

FIGURE	321	322	323
NICKEL-PLATED EACH	1.25	1.15	1.15

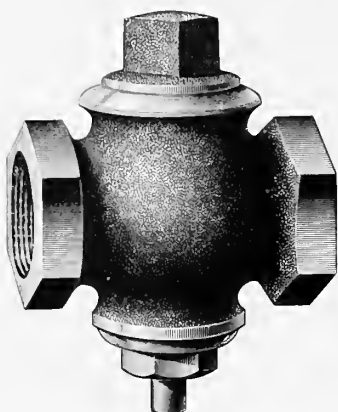
BRASS COCKS.

FIG. 324. STEAM COCK, SQUARE HEAD.

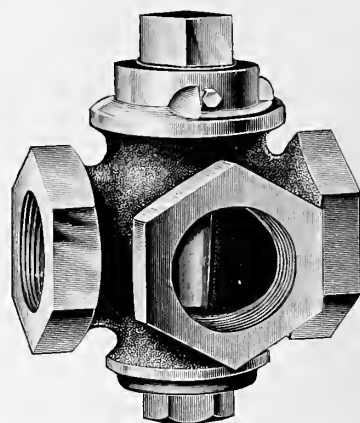
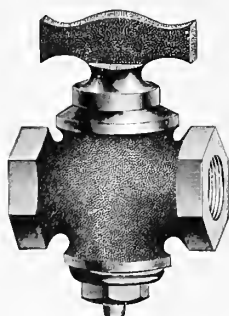
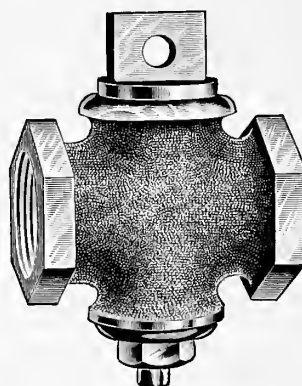
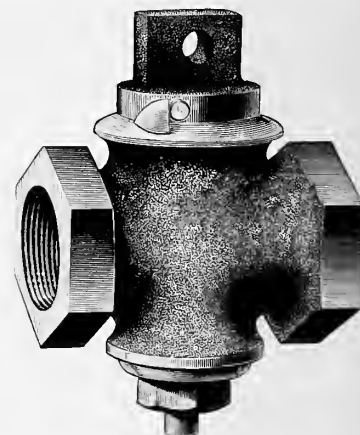


FIG. 325. THREE-WAY STEAM COCK, SQUARE HEAD.

STEAM COCKS.—Figs. 324 and 325.

SIZE - - - - - INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FIG. 324 - - - - - EACH	.70	.75	1.10	1.50	2.25	3.75	4.80	7.25	14.00	20.00
FIG. 324. EXTRA HEAVY, WITH CHECK - EACH	----	----	1.20	1.65	2.45	4.00	5.10	7.65	-----	-----
FIG. 325. THREE-WAY COCKS - - - EACH	----	----	1.75	2.40	3.60	5.75	7.30	10.40	18.50	26.75

FIG. 326. GAS SERVICE COCK.
TEE HANDLE.FIG. 327. GAS SERVICE COCK.
FLAT HEAD.FIG. 328. GAS SERVICE COCK.
EXTRA HEAVY, WITH CHECK.**GAS SERVICE COCKS—TEE HANDLES.—Fig. 326.**

SIZE - - - - - INCHES	$\frac{1}{4}$	$\frac{3}{8}$
FIG. 326 - - - - - EACH	.55	.65
FIG. 326. WITH CHECK - - - - - EACH	.65	.75

GAS SERVICE COCKS—FLAT HEAD.—Figs. 327 and 328.

SIZE - - - - - INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FIG. 327 - - - - - EACH	.55	.65	.75	1.00	1.40	2.20	3.00	5.00	10.00	15.00
FIG. 328. EXTRA HEAVY, WITH CHECK - EACH	---	----	1.05	1.55	2.20	3.25	4.50	7.40	-----	-----

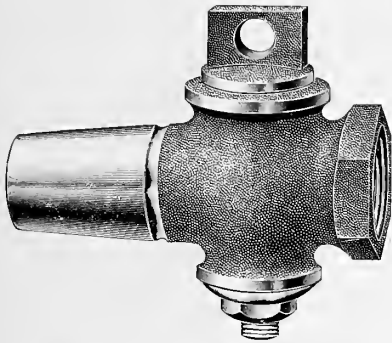
BRASS COCKS.

FIG. 329. METER COCK, FLAT HEAD.

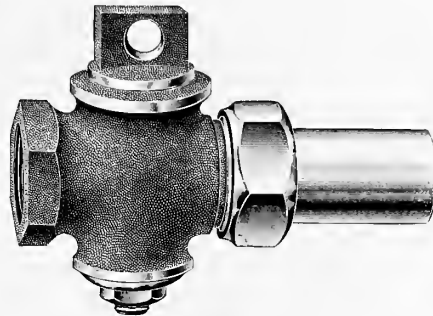


FIG. 330. UNION METER COCK, FLAT HEAD.

GAS METER COCKS.—Figs. 329 and 330.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 329	EACH	.85	1.20	1.70	2.60	3.60	5.75
FIG. 330	EACH	1.00	1.30	2.00	3.00	4.25	6.75

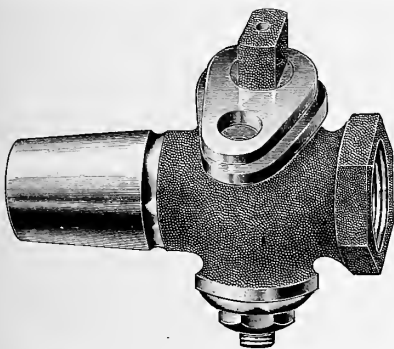


FIG. 331. LOCK METER COCK, FLAT HEAD.

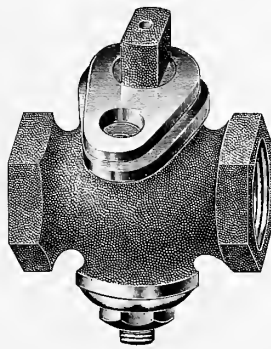


FIG. 332. LOCK SERVICE COCK.

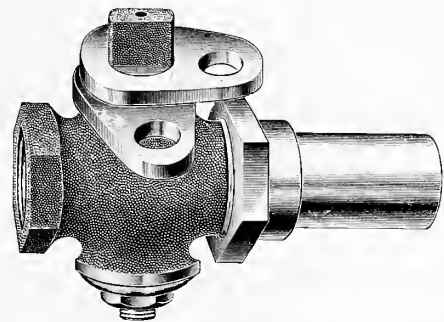


FIG. 333. LOCK UNION METER COCK, FLAT HEAD.

LOCK GAS SERVICE COCKS—FLAT HEAD.—Fig. 332.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH		1.25	1.50	2.00	3.50	5.00	6.75

LOCK METER COCKS.—Figs. 331 and 333.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 331	EACH	---	1.70	2.30	3.80	---	---
FIG. 333	EACH	1.50	1.80	2.50	4.00	5.50	8.00

Above prices do not include Lock.



FIG. 334.

STEAM AND GAS COCK WRENCHES, MALLEABLE IRON.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH		.07	.08	.09	.15	.25	.35	.45	.80	1.00	1.25

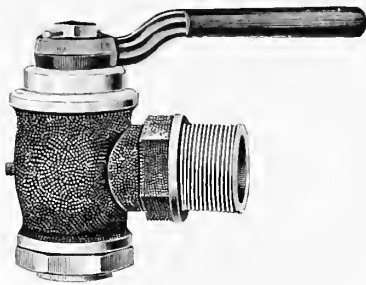


FIG. 335
BRASS LARD TANK COCK.

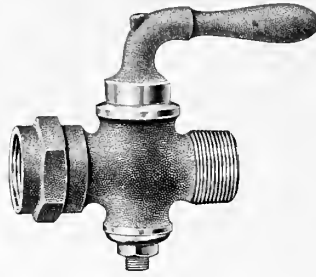


FIG. 336.
BRASS BRINE COCK, IRON PIPE.

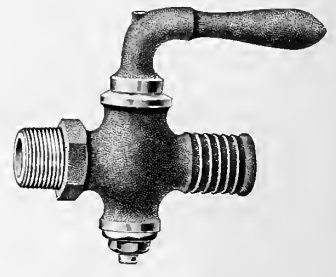


FIG. 337.
BRASS BRINE COCK, FOR HOSE.

BRASS LARD TANK COCKS—IRON PIPE.—Fig. 335.

SIZE	INCHES	1½	2
EACH		7.25	9.75

BRASS BRINE COCKS.—Figs. 336 and 337.

SIZE	INCHES	¾	1	1¼
EACH		1.75	2.50	4.00



FIG. 338. BRASS STEAM SWING JOINT.

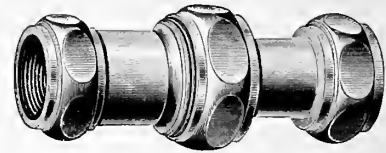


FIG. 339. BRASS EXPANSION JOINT.

BRASS STEAM SWING JOINTS—ROUGH.—Fig. 338.

SIZE INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH	1.25	1.75	2.40	3.50	4.50	6.25	9.00

BRASS EXPANSION JOINTS—STANDARD TRAVERSE.—Fig. 339.

SIZE	INCHES	½	¾	1	1¼	1½	2	2½	3
TRAVERSE	INCHES	2	2¼	2½	2¾	3	3½	4	4½
EACH		1.50	2.00	2.75	4.00	5.50	8.00	16.00	24.00

SPECIAL TRAVERSE.

SIZE	INCHES	¾	1	1¼	1½	2
TRAVERSE 6 INCHES	EACH	8.25	9.00	10.00	11.50	13.50
TRAVERSE 8 INCHES	EACH	9.00	10.00	11.25	13.00	15.50
TRAVERSE 10 INCHES	EACH	9.75	11.00	12.50	14.50	17.50
TRAVERSE 12 INCHES	EACH	10.50	12.00	13.75	16.00	19.50

When used for high-pressure steam, the expansion is 1 inch in 50 feet of pipe.

STANDARD IRON-BODY VALVES.



FIG. 340. GLOBE VALVE, PLAIN TOP.



FIG. 341. ANGLE VALVE, PLAIN TOP.

IRON-BODY GLOBE AND ANGLE VALVES, PLAIN TOP, SCREWED ENDS.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
EACH		2.00	2.50	3.50	5.00	7.50	10.50
AVERAGE WEIGHT	POUNDS	----	----	----	10	16	25

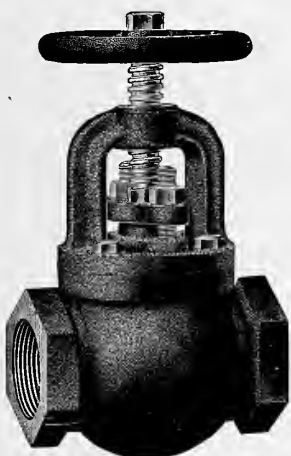


FIG. 342. GLOBE VALVE, YOKE TOP.

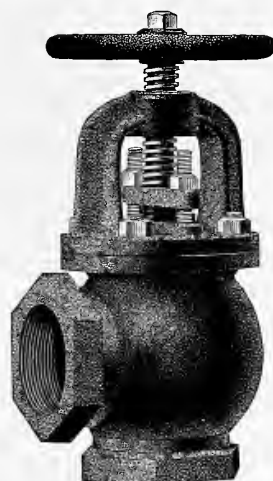


FIG. 343. ANGLE VALVE, YOKE TOP.

IRON-BODY GLOBE AND ANGLE VALVES, SCREWED ENDS, WITH YOKE TOP.

SIZE	INCHES	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
EACH		8.00	10.50	14.50	18.00	21.00	28.00
AVERAGE WEIGHT	POUNDS	13	16	25	41	57	70
SIZE	INCHES	5	6	7	8	10	12
EACH		32.00	44.00	75.00	85.00	135.00	200.00
AVERAGE WEIGHT	POUNDS	87	123	174	239	425	----

STANDARD IRON-BODY VALVES.

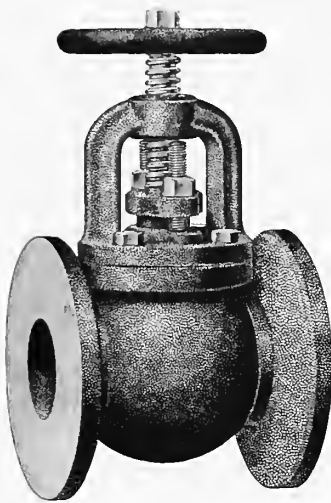


FIG. 344. GLOBE VALVE, FLANGED ENDS.



FIG. 345. ANGLE VALVE, FLANGED ENDS.

IRON-BODY GLOBE VALVES, FLANGED ENDS, WITH YOKE TOP.—Fig. 344.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
DIAMETER OF FLANGES		6½	7	8	8½	9	9½	10	11	13	14	16	19
FACE TO FACE		6½	7½	8	8½	9½	10	13	12½	14	16½	23	27½
EACH		9.75	12.50	17.50	21.50	25.00	32.00	36.00	49.00	80.00	91.00	145.00	220.00

IRON-BODY ANGLE VALVES, FLANGED ENDS, WITH YOKE TOP.—Fig. 345.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
DIAMETER OF FLANGES		6½	7	8	8½	9	9½	10	11	13	14	16	19
CENTER TO INLET		4½	4½	5	5½	6	6	6½	7	8½	9	10	13½
CENTER TO OUTLET		3½	4	4	4½	5	5	5½	6½	8	8½	9½	13½
EACH		9.75	12.50	17.50	21.50	25.00	32.00	36.00	49.00	80.00	91.00	145.00	220.00

IRON-BODY CHECK VALVES, FLANGED ENDS.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
EACH		5.50	8.25	12.75	16.25	19.00	24.00	28.00	38.00	60.00	71.00	120.00	190.00

DIMENSIONS OF HORIZONTAL AND ANGLE FLANGED CHECK VALVES.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
DIAMETER OF FLANGES		6½	7	8	8½	9	9½	10	11	13	14	16	19
FACE TO FACE		6½	7½	8	8½	9½	10	13	12½	14	16½	23	27½
CENTER TO INLET		4½	4½	5	5½	6	6	6½	7	8½	9	10	13½
CENTER TO OUTLET		3½	4	4	4½	5	5	5½	6½	8	8½	9½	13½

Iron-Body Check Valves 3-inch and smaller have Brass Cap; 3½-inch and larger, Iron Caps.

STANDARD IRON-BODY VALVES.



FIG. 346. PLAIN TOP, SCREWED ENDS.



FIG. 347. YOKE TOP, SCREWED ENDS.

IRON-BODY CROSS VALVES.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
PLAIN TOP, SCREWED	EACH	6.50	10.00	14.00									
YOKE TOP, SCREWED	EACH	9.50	13.00	18.00	23.00	27.00	35.00	40.00	54.00	90.00	105.00	175.00	260.00
AVERAGE WEIGHT	POUNDS	12	18	28	50	66	83	101	155	200	268		

IRON-BODY CROSS VALVES, FLANGED ENDS.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
DIAMETER FLANGES		6½	7	8	8½	9	9½	10	11	13	14	16	19
CENTER TO INLET		4½	4½	5	5½	6	6	6½	7	8½	9	10	13½
CENTER TO OUTLET		3½	4	4	4½	5	5	5½	6½	8	8½	9½	13½
WITH PLAIN TOP	EACH	9.00	13.00	18.50	28.25	33.00	41.00	46.00	61.50	98.00	114.00	190.00	290.00
WITH YOKE TOP	EACH	12.00	16.00	22.50	28.25	33.00	41.00	46.00	61.50	98.00	114.00	190.00	290.00



FIG. 348. HORIZONTAL CHECK VALVE, SCREWED ENDS.



FIG. 349. ANGLE CHECK VALVE, SCREWED ENDS.



FIG. 350. VERTICAL CHECK VALVE.

IRON-BODY CHECK VALVES, SCREWED ENDS.—Figs. 348, 349, and 350.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10
EACH		3.75	6.25	9.75	12.75	15.00	20.00	24.00	33.00	55.00	65.00	110.00

JENKINS DISC IRON-BODY VALVES.

FIG. 351. PLAIN TOP, SCREWED ENDS.



FIG. 352. YOKE TOP, SCREWED ENDS.

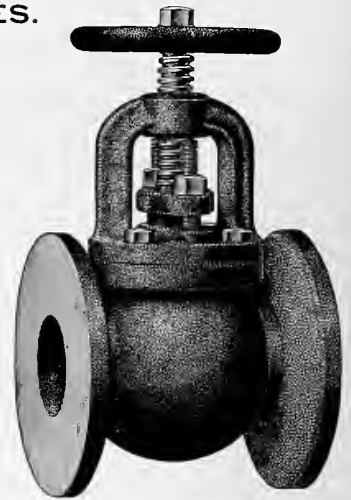


FIG. 353. FLANGED ENDS.

JENKINS DISC IRON-BODY GLOBE AND ANGLE VALVES.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
PLAIN TOP, SCREWED	EACH	7.25	11.00	16.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
YOKE TOP, SCREWED	EACH	10.00	12.00	16.75	19.50	24.00	36.00	40.00	48.00	80.00	90.00	130.00	185.00
PLAIN TOP, FLANGED	EACH	8.50	13.00	18.00	-----	-----	-----	-----	-----	-----	-----	-----	-----
YOKE TOP, FLANGED	EACH	11.75	14.00	18.50	21.50	26.00	39.00	42.00	50.00	80.00	90.00	130.00	185.00

DIMENSIONS OF JENKINS DISC IRON-BODY VALVES.

SIZE INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
DIAMETER OF FLANGES	6½	7	8	8½	9	9½	10	11	13	14	16	19
FACE TO FACE GLOBE VALVES	6	7½	9½	10	11¾	12½	13	16	16	18½	21¼	24½
CENTER TO FACE ANGLE VALVES	3½	4½	4¾	5¾	5¾	6¼	6½	8	8½	9¼	11	12¾

JENKINS DISC IRON-BODY CHECK VALVES.

SIZE	INCHES	2½	3	3½	4	5	6
SCREWED ENDS	EACH	10.50	14.00	17.00	20.00	30.00	40.00
FLANGED ENDS	EACH	12.50	16.50	20.00	23.00	33.00	43.00

JENKINS DISC IRON-BODY CROSS VALVES.

SIZE	INCHES	2½	3	3½	4	4½	5	6
SCREWED ENDS	EACH	16.00	21.00	26.00	30.00	42.00	45.00	58.00
FLANGED ENDS	EACH	19.00	24.00	29.00	33.00	45.00	48.00	62.00

JENKINS DISCS.

SIZE	INCHES	¼	⅜	½	¾	1	1¼	1½	2	2½
EACH		.03	.04	.04	.05	.06	.09	.12	.18	.24
SIZE	INCHES	3	3½	4	5	6	7	8	10	12
EACH		.33	.45	.52	.68	.90	.98	1.05	1.50	2.00

All our Valves are tested to 200 pounds, and are always supplied with stems, packed ready for use, without extra charge.

STANDARD IRON-BODY VALVES.



FIG. 354. GLOBE SAFETY VALVE.

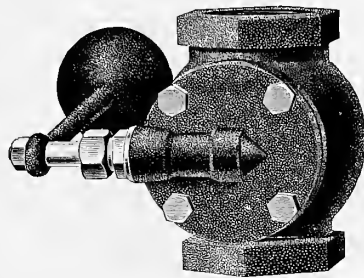


FIG. 355. BACK PRESSURE VALVE.

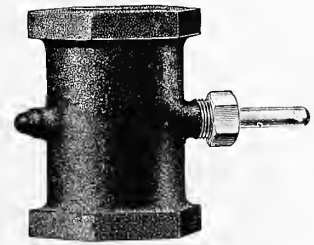


FIG. 356. BUTTERFLY VALVE.

IRON-BODY GLOBE SAFETY VALVES, SCREWED ENDS.—Fig. 354.

SIZE	INCHES	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6
EACH		5.00	6.00	8.00	13.00	18.00	24.00	30.00	36.00	44.00	60.00

IRON-BODY GLOBE SAFETY VALVES, FLANGED ENDS.

SIZE	INCHES	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6
DIAMETER OF FLANGES		6 $\frac{1}{2}$	7	8	8 $\frac{1}{2}$	9	9 $\frac{1}{2}$	10	11
CENTER TO INLET		4 $\frac{1}{4}$	4 $\frac{1}{2}$	5	5 $\frac{1}{4}$	6	6	6 $\frac{1}{2}$	7
CENTER TO OUTLET		3 $\frac{3}{4}$	4	4	4 $\frac{1}{4}$	5	5	5 $\frac{1}{2}$	6 $\frac{1}{2}$
EACH		10.50	16.00	22.50	29.25	36.00	42.00	50.00	67.50

IRON-BODY BACK PRESSURE VALVES.—Fig. 355.

SIZE	INCHES	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	10	12
SCREWED ENDS	EACH	8.00	10.50	14.50	18.00	21.00	28.00	32.00	44.00	75.00	85.00	135.00	200.00
FLANGED ENDS	EACH	---	12.50	17.50	21.50	25.00	32.00	36.00	49.00	80.00	91.00	145.00	220.00
DIAMETER OF FLANGES	---	---	7	8	8 $\frac{1}{2}$	9	9 $\frac{1}{2}$	10	11	13	14	16	19
FACE TO FACE OF FLANGES	---	---	7 $\frac{1}{8}$	8	8 $\frac{3}{8}$	9 $\frac{5}{8}$	10	13	12 $\frac{1}{4}$	14	16 $\frac{1}{2}$	23	27 $\frac{1}{2}$

IRON-BODY BUTTERFLY VALVES.—Fig. 356.

SIZE	INCHES	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6
SCREWED ENDS	EACH	3.50	4.50	6.00	8.00	12.00	16.00	20.00	40.00	75.00
FLANGED ENDS	EACH	---	---	---	10.00	15.00	19.50	24.00	45.00	80.00
DIAMETER OF FLANGES	---	---	---	---	7	8	8 $\frac{1}{2}$	9	10	11
FACE TO FACE OF FLANGES	---	---	---	---	7	7 $\frac{1}{2}$	8	8 $\frac{1}{2}$	9 $\frac{3}{4}$	10 $\frac{1}{2}$

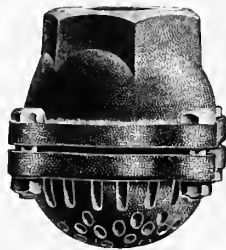


FIG. 357. FOOT VALVE, SCREWED ENDS.

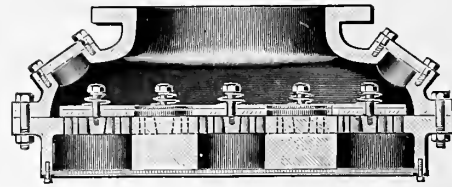


FIG. 358. FOOT VALVE, FLANGED ENDS.

IRON FOOT VALVES AND STRAINERS.—Fig. 357.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	8
SCREWED	EACH	1.30	1.50	1.80	2.50	3.50	5.00	6.50	8.00	12.50	20.00	40.00

IRON-BODY FOOT VALVES, WITH STRAINERS.—Fig. 358.

SIZE	INCHES	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	7	8
SCREWED END	EACH	11.50	12.00	16.25	18.25	20.00	26.25	33.00	38.50	44.75
FLANGED END	EACH	11.75	12.25	16.25	18.25	20.00	25.75	32.50	38.00	43.50
HUB END	EACH	11.75	—	16.75	—	20.00	—	33.25	39.00	46.50
DIAMETER OF FLANGE	INCHES	6 $\frac{1}{2}$	7	8	8 $\frac{1}{2}$	9	10	11	12	13
END OF SCREW SOCKET TO STRAINER	INS.	9 $\frac{1}{4}$	9 $\frac{3}{4}$	11	12	12 $\frac{3}{4}$	14 $\frac{3}{4}$	15 $\frac{3}{4}$	15 $\frac{3}{4}$	15 $\frac{3}{4}$
FACE OF FLANGE TO STRAINER	INCHES	8 $\frac{1}{4}$	8 $\frac{3}{4}$	10	11	11 $\frac{1}{2}$	13 $\frac{1}{4}$	14 $\frac{1}{2}$	14 $\frac{3}{4}$	14 $\frac{3}{4}$
END OF HUB TO STRAINER	INCHES	10 $\frac{1}{2}$	—	12 $\frac{1}{2}$	—	14	16 $\frac{3}{4}$	18	19	19
DEPTH OF HUB	INCHES	2 $\frac{1}{2}$	—	3	—	3	3 $\frac{1}{4}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$

SIZE	INCHES	10	12	14	16	18	20	24	30	—
SCREWED END	EACH	82.00	113.00	—	—	—	—	—	—	—
FLANGED END	EACH	82.00	112.00	145.00	190.00	235.00	265.00	400.00	780.00	—
HUB END	EACH	83.00	113.00	147.00	193.00	238.00	268.00	405.00	790.00	—
DIAMETER OF FLANGE	INCHES	16	18	21	23	25	27	31	38	—
FACE OF FLANGE TO STRAINER	INCHES	11	12	13 $\frac{3}{4}$	14 $\frac{1}{4}$	14 $\frac{3}{4}$	17	18	23 $\frac{1}{2}$	—
END OF HUB TO STRAINER	INCHES	14 $\frac{1}{4}$	15	16 $\frac{1}{4}$	18	18 $\frac{3}{4}$	22	23 $\frac{1}{2}$	29	—
DEPTH OF HUB	INCHES	4	4 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	4 $\frac{3}{4}$	5 $\frac{1}{4}$	5 $\frac{3}{4}$	—

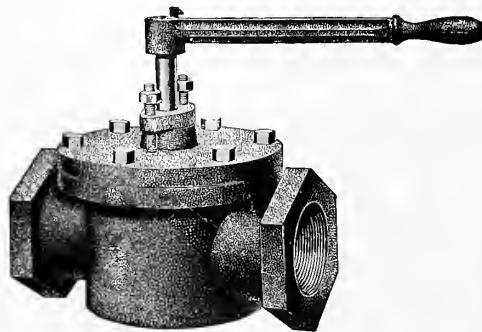


FIG. 360. THROTTLE VALVE, SCREWED ENDS.

IRON-BODY THROTTLE VALVES.—Fig. 360.

SIZE	INCHES	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7
SCREWED ENDS	EACH	18.00	24.00	32.00	40.00	48.00	70.00	85.00	95.00	115.00
FLANGED ENDS	EACH	19.25	26.00	35.00	43.50	52.00	75.00	90.00	100.00	120.00

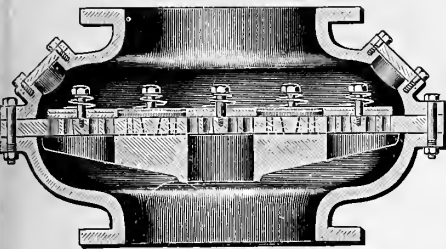


FIG. 361.
VERTICAL CHECK VALVE, FLANGED ENDS.

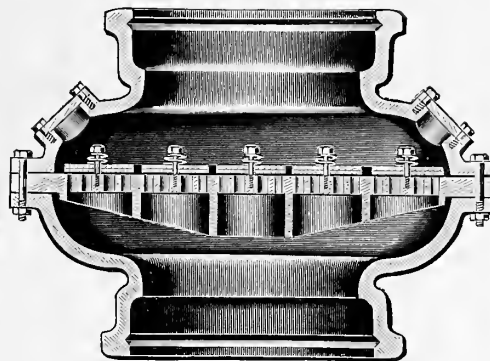


FIG. 362.
VERTICAL CHECK VALVE, HUB ENDS.

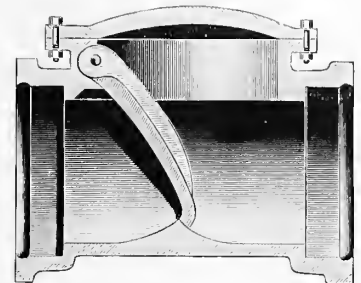


FIG. 363.
HORIZONTAL CHECK VALVE, HUB ENDS.

VERTICAL CHECK VALVES.—Figs. 361 and 362.

SIZE	INCHES	2	2½	3	3½	4	5	6	7	8	10
SCREW SOCKET	EACH	7.50	8.00	12.70	14.25	16.50	22.50	29.00	32.50	31.00	83.50
FLANGE END	EACH	8.00	8.50	12.70	14.25	16.50	22.00	28.00	31.50	36.50	83.50
HUB END	EACH	8.00	8.50	12.70	14.25	16.50	22.00	30.00	35.00	39.00	85.50
DIAMETER OF FLANGES	INCHES	6½	7	8	8½	9	10	11	12	13	16
FACE TO FACE OF FLANGES	INCHES	5¼	5¾	6	7	7½	9½	10¾	10¾	10¾	13
END TO END OF SCREW SOCKET	INCHES	7½	7½	8½	9½	10½	12½	13¾	13¾	14½	15½
END TO END OF HUBS	INCHES	9	9	11½	12½	12½	16¾	18	19¾	19¾	20
DEPTH OF HUB	INCHES	2½	2½	3	3	3	3¼	3¼	3¼	3½	4

SIZE	INCHES	12	14	16	18	20	24	30
SCREW SOCKET	EACH	108.00	150.00	200.00	240.00	275.00	420.00	800.00
FLANGE END	EACH	108.00	150.00	200.00	240.00	275.00	420.00	800.00
HUB END	EACH	110.00	152.00	203.00	243.00	278.00	425.00	810.00
DIAMETER OF FLANGES	INCHES	18	21	23	25	27	31	38
FACE TO FACE OF FLANGES	INCHES	14¼	18¼	18½	21	22¼	24½	28½
END TO END OF HUBS	INCHES	21¼	25¾	27½	29	32½	35½	41
DEPTH OF HUB	INCHES	4½	4½	4½	4½	4½	5½	5¾

HORIZONTAL CHECK VALVES, IRON BODY, BRASS MOUNTED.—Fig. 363.

LIST A.

SIZE	INCHES	2½	3	3½	4	5	6	7	8	10	12
SCREW SOCKET	EACH	7.75	9.75	14.50	20.50	25.50	31.00	37.00	44.50	77.50	97.00
FLANGE END	EACH	10.00	11.00	15.50	21.50	27.00	32.50	38.50	46.00	76.50	95.00
HUB END	EACH	10.25	10.25	15.50	20.50	25.00	28.50	34.00	43.00	73.00	92.00
DIAMETER OF FLANGES	INCHES	7	8	8½	9	10	11	12	13	16	18
FACE TO FACE OF FLANGES	INCHES	8¾	10¾	9½	11½	13¼	17	17	17¾	23	24½
END TO END OF SCREW SOCKET	INCHES	7½	9	9½	10	13¼	14	16½	16½	---	---
END TO END OF HUBS	INCHES	13	13	15	15	19½	17½	19	19	24¾	27¼
DEPTH OF HUB	INCHES	3	3	3	3	3¼	3¼	3½	3½	4	4

LIST B.

SIZE	INCHES	14	16	18	20	24	30	36
FLANGE END	EACH	150.00	165.00	230.00	285.00	400.00	1200.00	1890.00
HUB END	EACH	146.00	160.00	225.00	280.00	390.00	1120.00	1825.00
DIAMETER OF FLANGES	INCHES	21	23	25	27	31	38	45
FACE TO FACE OF FLANGES	INCHES	26½	30½	32½	35½	40	56	67
END TO END OF HUBS	INCHES	30	32¼	37	40	41½	68	78
DEPTH OF HUB	INCHES	4	4	4	4½	4½	5½	5½



FIG. 364. IRON COCK.

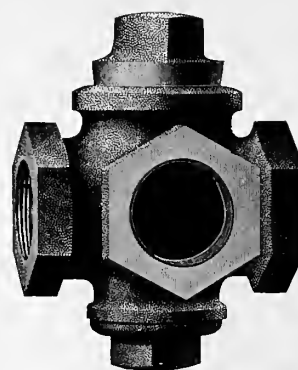


FIG. 365. THREE-WAY IRON COCK.

IRON COCKS.—Fig. 364.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
EACH		.75	.80	.90	1.25	1.50	2.00	2.60	4.50	6.50	12.00	16.00	33.00	45.00
WITH BRASS PLUG	EACH	1.10	1.20	1.60	2.00	2.75	4.00	5.00	9.50	13.50	30.00	40.00	70.00	95.00

THREE-WAY IRON COCKS.—Fig. 365.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
EACH		1.30	1.75	2.00	2.75	4.00	6.00	8.50	15.00	20.00
WITH BRASS PLUG	EACH	2.00	2.50	3.25	4.75	6.50	11.00	15.50	33.00	44.00

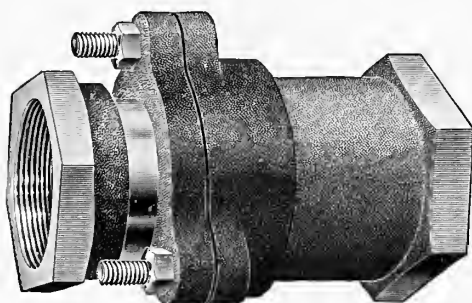


FIG. 366. IRON-BODY EXPANSION JOINT, SCREWED ENDS.

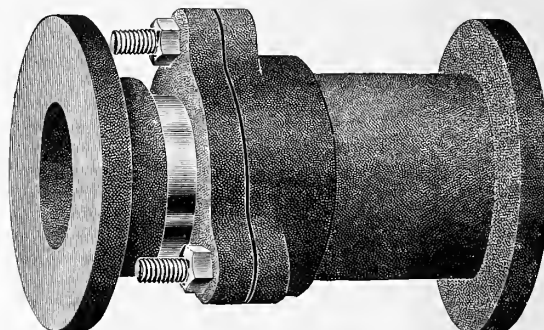


FIG. 367. IRON-BODY EXPANSION JOINT, FLANGED ENDS.

IRON-BODY EXPANSION JOINTS, STANDARD TRAVERSE.—Figs. 366 and 367.

SIZE	INCHES	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8	9	10	12
TRAVERSE	INCHES	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	4	5	6	7	7	7	8
SCREWED ENDS	EACH	6.25	7.25	9.25	12.50	16.00	34.00	40.00	70.00	90.00	105.00	150.00	220.00
FLANGED ENDS	EACH	13.25	14.25	16.75	22.50	26.00	44.00	50.00	82.00	105.00	120.00	170.00	240.00
DIAMETER OF FLANGES	INCHES	$6\frac{1}{2}$	7	8	$8\frac{1}{2}$	9	10	11	13	14	15	16	19

Longer Traverse Expansion Joints can be furnished to order.

When used for high-pressure steam, the expansion is 1 inch in 50 feet of pipe.

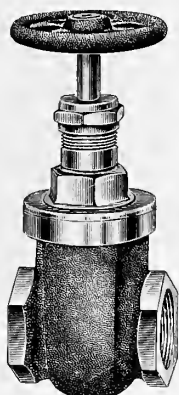


FIG. 368. BRASS, 2 INCH AND SMALLER.

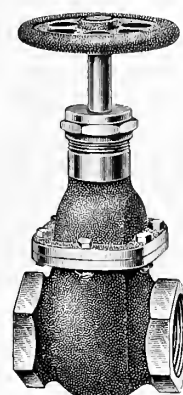
EDDY GATE VALVES.

FIG. 369. BRASS, 2 1/2 INCH AND LARGER.

EDDY BRASS GATE VALVES.—Figs. 368 and 369.

SIZE INCHES	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
SCREWED ENDS . . . EACH	1.30	1.30	1.30	1.70	2.20	3.20	4.20	6.20	11.50	16.00	22.00	35.00	50.00	80.00	130.00
FLANGED ENDS . . . EACH	---	---	---	---	---	---	---	9.00	15.00	20.00	28.00	42.00	60.00	90.00	130.00

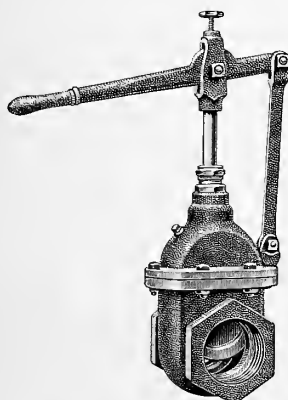


FIG. 370. BRASS QUICK-OPENING VALVE.

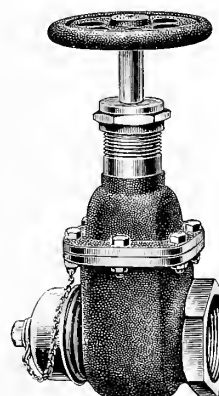


FIG. 371. BRASS HOSE VALVE, WITH CAP AND CHAIN.

EDDY BRASS QUICK-OPENING GATE VALVES.—Fig. 370.

SIZE INCHES	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
SCREWED ENDS . . . EACH	2.70	3.20	4.20	5.20	7.50	12.80	17.30	23.60	37.00	54.00	85.00	137.00
FLANGED ENDS . . . EACH	---	---	---	---	10.30	16.30	21.30	29.60	44.00	64.00	95.00	137.00

EDDY BRASS HOSE GATE VALVES.—Fig. 371.

SIZE INCHES	2	2 1/2	3
WITH BRASS CAP AND CHAIN EACH	7.60	13.00	17.60
WITH IRON CAP AND CHAIN EACH	7.00	12.40	17.00
WITHOUT CAP AND CHAIN EACH	6.20	11.50	16.00

These Valves have one male end to fit hose coupling, and one female end to fit wrought-iron pipe. Always send a hose coupling for male end. Specify whether iron or brass cap is wanted. *If not specified, we send without cap.*

Eddy Valves are all double-faced, and constructed with two loose Gates, each perfectly independent of the other.

EDDY GATE VALVES.

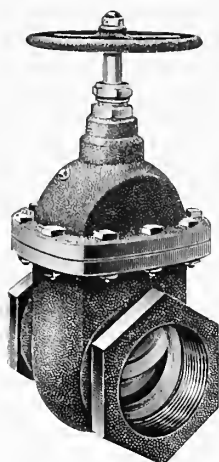
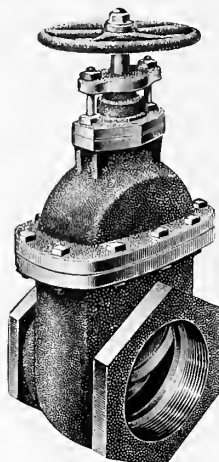
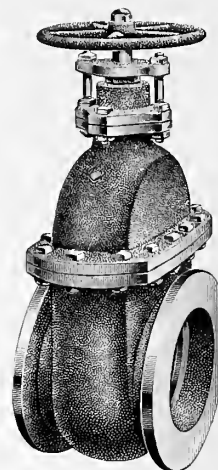
FIG. 372. SCREWED END.
7 INCH AND SMALLER.FIG. 373. SCREWED END.
8 INCH AND LARGER.

FIG. 374. FLANGED END.

EDDY IRON-BODY, BRASS MOUNTED GATE VALVES, SCREWED ENDS.—Figs. 372 and 373.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
EACH		7.00	10.50	13.00	16.50	18.00	22.00	25.00	31.00	37.00	45.00	60.00	80.00
MEASUREMENT END TO END	INCHES	5½	6	7¼	7½	8	8½	9	10¼	11	11	13¼	14¾
WEIGHT	POUNDS	18½	25	40	50	75	100	125	175	200	270	415	600

EDDY IRON BODY, BRASS MOUNTED GATE VALVES, FLANGED ENDS.—Fig. 374.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8	10
EACH		7.00	10.50	13.00	16.50	18.00	22.00	25.00	31.00	37.00	45.00	60.00
SIZE	INCHES	12	14	15	16	18	20	22	24	30	36	----
EACH		80.00	120.00	135.00	150.00	190.00	240.00	320.00	400.00	700.00	1200.00	----

DIMENSIONS AND WEIGHTS.—Fig. 374.

SIZE	INCHES	2	2½	3	3½	4	4½	5	6	7	8
FACE TO FACE		5¾	6½	7¾	7¾	7¾	8½	9¼	9¾	11	11
DIAMETER OF FLANGES		6	7	8	8½	9	9½	10	11	12	13
NUMBER OF BOLTS		3	4	4	4	4	5	6	6	6	8
DIAMETER OF BOLTS		¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
DIAMETER OF BOLT CIRCLE		4¾	5½	6¼	6¾	7¼	7¾	8¼	9¼	10¾	11½
WEIGHT	POUNDS	23	38	50	55	75	100	125	175	200	270
SIZE	INCHES	10	12	14	15	16	18	20	24	30	36
FACE TO FACE		12	13½	15	15	16¼	16¼	17¾	20	22½	25¾
DIAMETER OF FLANGES		16	18	21	22	23	25	27	31	38	45
NUMBER OF BOLTS		10	12	14	16	16	18	18	20	24	30
DIAMETER OF BOLTS		¾	¾	¾	¾	¾	¾	1½	1	1½	1½
DIAMETER OF BOLT CIRCLE		14	16¼	18½	20	21	23	24½	29½	35½	42½
WEIGHT	POUNDS	415	580	708	948	945 1300 G	1100	1400	2410	4030	7800

Eddy Valves are all double-faced and constructed with two loose gates, each perfectly independent of the other.

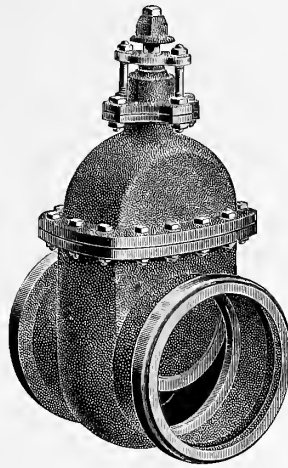
EDDY GATE VALVES.

FIG. 375. HUB END.

EDDY IRON-BODY, BRASS-MOUNTED, GATE VALVES—HUB ENDS.

SIZE - - - - - INCHES	2	3	4	6	8	10	12	14	16	18	20	24	30	36
EACH - - - - -	10.00	15.00	18.00	31.00	45.00	60.00	80.00	120.00	150.00	190.00	240.00	400.00	700.00	1200.00
END TO END - - INCHES	7 $\frac{1}{2}$	10 $\frac{1}{2}$	12	13 $\frac{1}{2}$	14 $\frac{1}{4}$	15 $\frac{1}{2}$	16	17 $\frac{1}{4}$	17 $\frac{3}{4}$	18	19 $\frac{1}{2}$	22	25	31 $\frac{1}{2}$
DEPTH OF HUB - INCHES	2 $\frac{1}{4}$	3	3 $\frac{1}{2}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	4	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	5 $\frac{1}{2}$	6	7 $\frac{1}{2}$	7 $\frac{1}{2}$
WEIGHT - - - - POUNDS	20	45	110	175	300	450	600	675	1350	1100	1535	4800	7800	

All Water Gates will be shipped made to open to the right, unless open to left is specially ordered.

List price given above includes gearing on sizes 24-inch and larger. For gearing on smaller sizes an extra charge is made. By-Pass Valves extra.

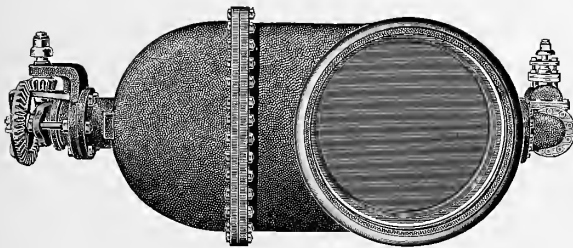
SPECIAL VALVES.

FIG. 376.
GEARED TO SET HORIZONTAL, AND MADE
WITH SINGLE BY-PASS VALVE.

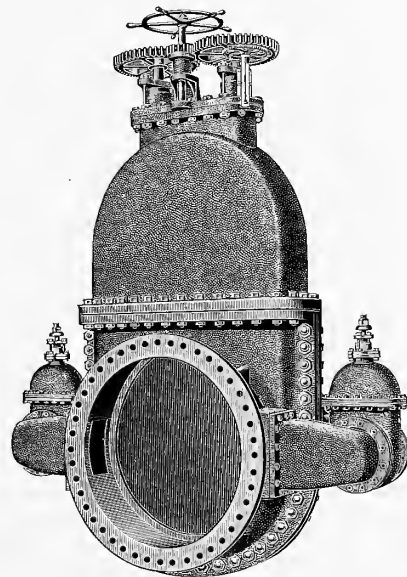


FIG. 377. 48-INCH VALVE.
GEARED TO STAND UPRIGHT, WITH
DOUBLE BY-PASS VALVES.

We are prepared to furnish Valves in all sizes from $\frac{1}{4}$ -inch to 60-inch inclusive.

Eddy Valves are all double-faced and constructed with two loose gates, each perfectly independent of the other.

EDDY GATE VALVES.

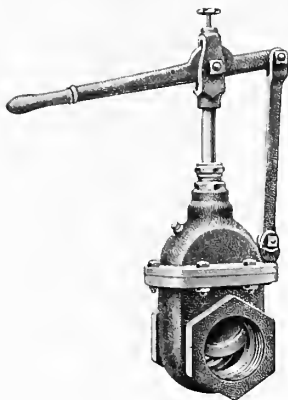


FIG. 378. QUICK-OPENING GATE VALVE.

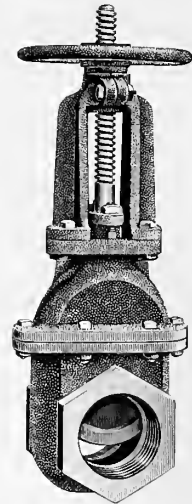


FIG. 379. OUTSIDE STEM AND YOKE VALVE.

EDDY IRON-BODY BRASS-MOUNTED GATE VALVES.—Figs. 378 and 379.

SIZE INCHES	2	2½	3	3½	4	4½	5	6	7	8	10	12
FIG. 378, SCREWED OR FLANGED ENDS, EACH	8.20	11.80	14.40	18.00	19.70	23.80	27.00	33.30	39.70	48.00	63.50	84.00
FIG. 379, SCREWED OR FLANGED ENDS, EACH	7.00	10.50	13.00	16.50	18.00	22.00	25.00	31.00	37.00	45.00	60.00	80.00

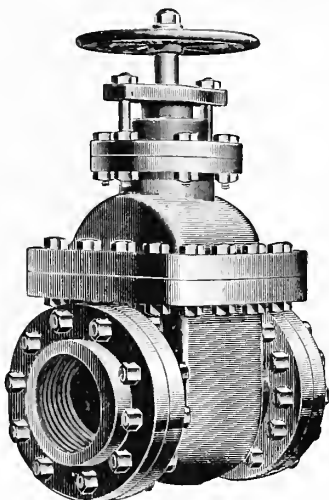


FIG. 380. EDDY GATE VALVE FOR EXTREME HEAVY PRESSURE.

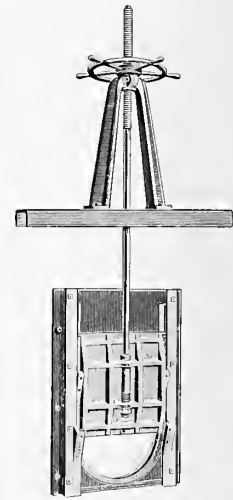


FIG. 381. SLUICE-GATE AND STAND.

EDDY GATE VALVES, EXTRA HEAVY, TESTED 600 LBS. PRESSURE PER SQ. IN.—Fig. 380.

SIZE INCHES	2	2½	3	3½	4	6	8	10	12
SCREWED ENDS EACH	14.50	21.00	26.00	33.00	40.50	65.00	91.00	122.00	158.00
FLANGED ENDS EACH	15.00	22.00	27.50	35.00	43.00	68.00	92.00	122.00	158.00

EDDY SLUICE-GATE AND STAND.—Fig. 381.

WIDTH INCHES	24	24	24	30	30	30	30	30	30	36	36	36	36	36
HEIGHT INCHES	24	30	36	30	36	42	48	54	60	36	42	48	54	60
EACH	200.00	250.00	300.00	325.00	375.00	400.00	425.00	450.00	475.00	400.00	450.00	500.00	550.00	600.00

Sluice-Gates are made to suit requirements of customers, as full detail of conditions is requested on application for price.

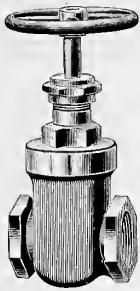


FIG. 382. BRASS GATE VALVE.

AMERICAN GATE VALVES.
PARALLEL DISCS—COMPOUND WEDGE.

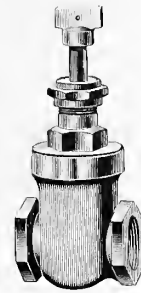


FIG. 383. BRASS SERVICE GATE VALVE.

AMERICAN BRASS GATE VALVES.—Fig. 382.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH	1.30	1.75	2.50	3.50	5.00	7.50	15.00	22.00

AMERICAN BRASS SERVICE GATE VALVES.—Fig. 383.

SIZE INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
EACH	1.65	2.00	2.75	4.00	5.50	8.50	17.00	25.00
WITH WASTE EACH	----	3.00	3.75	5.10	7.75	11.50	23.00	33.75

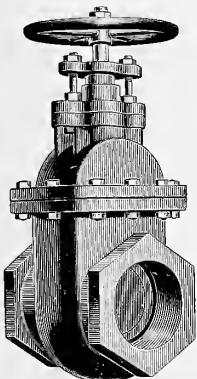


FIG. 384. SCREW ENDS.

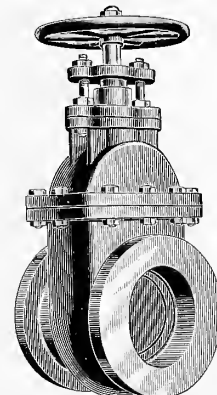


FIG. 385. FLANGE ENDS.

AMERICAN IRON-BODY BRASS-MOUNTED GATE VALVES.—Figs. 384 and 385.

SIZE INCHES	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12	14	16
SCREWED ENDS . . EACH	7.50	12.00	15.00	18.00	20.00	22.50	25.00	30.00	40.00	50.00	70.00	97.50	----	----
FLANGED ENDS . . EACH	7.50	12.00	15.00	18.00	20.00	22.50	25.00	30.00	40.00	50.00	70.00	97.50	141.00	178.00

WEIGHTS AND DIMENSIONS AMERICAN IRON-BODY GATE VALVES.

SIZE OF VALVE . . INCHES	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12	14	16	18	20	24	30
DIAMETER OF FLANGES . . IN.	6	7	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10	11	12	13	16	18	21	23	25	27	31	38
FACE TO FACE OF FLANGES . . IN.	$5\frac{3}{4}$	$6\frac{1}{2}$	$7\frac{3}{4}$	$7\frac{3}{4}$	$7\frac{3}{4}$	$8\frac{1}{2}$	$9\frac{1}{4}$	$9\frac{3}{4}$	11	11	$10\frac{1}{4}$	$12\frac{3}{8}$	$12\frac{3}{4}$	$13\frac{1}{8}$	14	$14\frac{1}{2}$	16	$16\frac{1}{4}$
END TO END, SCREW SOCKETS . IN.	6	6	$7\frac{1}{4}$	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9	$10\frac{1}{4}$	11	11	$11\frac{1}{2}$	----	----	----	----	----	----	----
WEIGHT, SCREWED ENDS . . LBS.	16	22	38	45	66	----	90	118	160	245	290	370	----	----	----	----	----	----
WEIGHT, FLANGED ENDS . . LBS.	22	26	40	50	70	88	96	140	165	245	290	370	550	775	----	----	----	----

AMERICAN GATE VALVES.

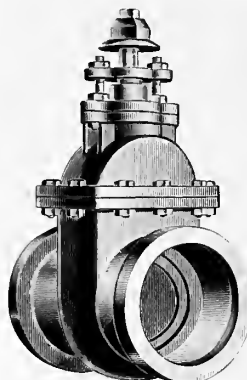


FIG. 386. HUB ENDS.

AMERICAN IRON-BODY, BRASS-MOUNTED GATE VALVES, HUB ENDS.—Fig. 386.

SIZE	INCHES	2	3	4	6	8	10	12	14	16	18	20	24	30	36
EACH		10.00	15.00	20.00	30.00	50.00	70.00	91.50	141.00	178.00	222.00	285.00	475.00	870.00	1425.00
END TO END OF HUB . . .	INS.	7 $\frac{1}{4}$	9 $\frac{1}{2}$	10 $\frac{3}{4}$	11 $\frac{1}{4}$	12 $\frac{1}{4}$	13 $\frac{1}{2}$	13 $\frac{1}{4}$	14 $\frac{1}{4}$	15	14 $\frac{5}{8}$	16 $\frac{1}{2}$	15 $\frac{1}{2}$	19 $\frac{1}{4}$	19
DEPTH OF HUB	INS.	2 $\frac{1}{2}$	3	3	3	3 $\frac{3}{4}$	3 $\frac{3}{4}$	4	4	4	4 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	5
WEIGHT	LBS.	22	40	80	140	240	325	415	575	800	900	1150	1575	3000	3940

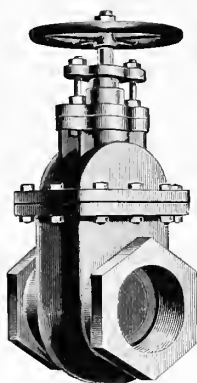


FIG. 387. SCREWED ENDS.

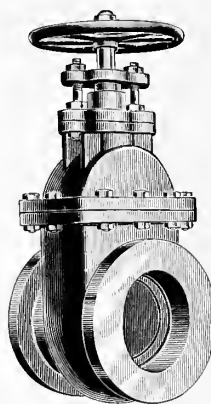


FIG. 388. FLANGED ENDS.

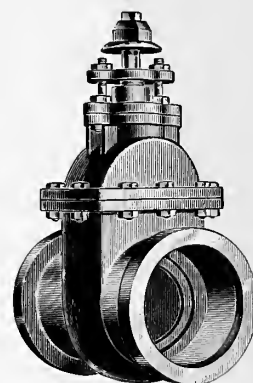


FIG. 389. HUB ENDS.

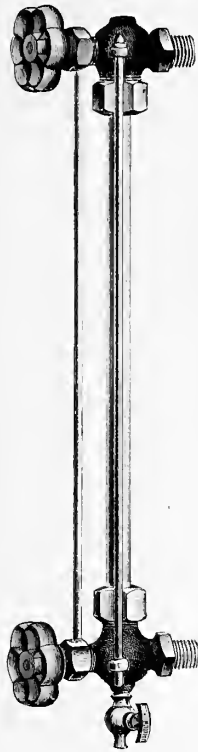
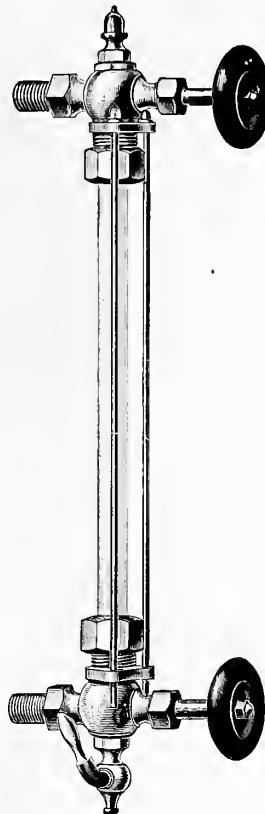
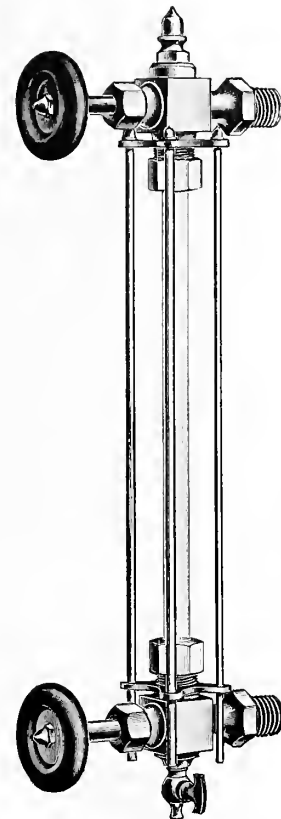
AMERICAN ALL-IRON GATE VALVES.—Figs. 387 and 388.
FOR GAS, AMMONIA, ETC.

SIZE	INCHES	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12
SCREWED OR FLANGED ENDS	EACH	7.20	9.60	12.00	14.00	16.00	18.00	20.00	24.00	32.00	40.00	48.00	55.00	75.00

AMERICAN ALL-IRON GATE VALVES, HUB ENDS.—Fig. 389.

SIZE	INCHES	2	3	4	6	8	10	12	14	16
EACH		7.00	12.00	16.00	24.00	40.00	55.00	75.00	130.00	165.00

ENGINE AND BOILER TRIMMINGS.

FIG. 390.
FOR EXPANSION TANK.FIG. 391.
ROUGH BODY, IRON WHEEL.FIG. 392.
FINISHED ROUND BODY,
WOOD WHEEL.FIG. 393.
FINISHED SQUARE BODY,
WOOD WHEEL.

WATER GAGES.

FIGURE	390	391	391	392	392	393	393
THREADED FOR PIPE	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
DIAMETER OF GLASS	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
LENGTH OF GLASS	12	10	12	12	16	12	16
EACH	2.60	2.75	3.00	4.25	6.00	6.00	10.00



FIG. 394.

SCOTCH GLASS TUBES.—Fig. 394.

LENGTH - INCHES	10	11	12	13	14	15	16	17	18	19	20	22	24	30	36	48	60
$\frac{1}{8}$ -INCH - EACH	.40	.40	.45	.45	.50	.55	.60	.65	.70	.75	.80	.90	1.00	1.40	1.90	2.00	3.00
$\frac{3}{8}$ -INCH - EACH	.40	.40	.45	.45	.50	.55	.60	.65	.70	.75	.80	.90	1.00	1.40	1.90	2.00	3.00
$\frac{1}{2}$ -INCH - EACH	.55	.55	.55	.55	.60	.60	.65	.70	.75	.80	.85	.95	1.05	1.50	2.00	3.00	4.00
1-INCH - EACH	.90	.90	.90	.90	.90	.90	.90	.95	1.00	1.10	1.25	1.50	2.00	2.60	3.25	5.00	6.00

Sizes over 24 inches long, Special Discount. Glasses up to 10 feet long carried in stock.

RED-REFLECTING GAGE GLASSES.

LIST PRICE SAME AS REGULAR SCOTCH GAGE GLASSES.

Showing through the water a broad line of a rich red color, thus rendering it very distinct. Height of water in boiler can be seen instantly and as plainly by night as by day. These glasses have stood a test of 5,000 pounds pressure.

ENGINE AND BOILER TRIMMINGS.



FIG. 395.

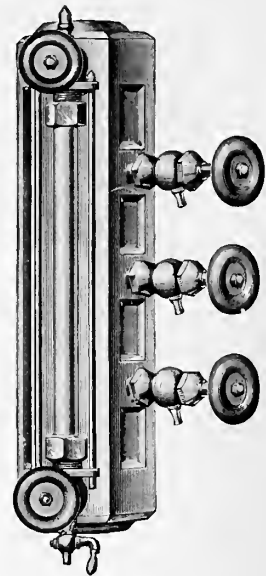


FIG. 396.

WATER GAGE COLUMNS.— Fig. 395.
WITHOUT TRIMMINGS.

NO.	1	2	3	4	5	6
LENGTH INCHES	12	15	18	22	20	28
SIZE BOILER CONNECTIONS	$\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
SIZE WATER GAGE CONNECTIONS	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
CENTER TO CENTER, WATER GAGE CONNECTIONS	10	12	15	18	14	22
SIZE GAGE COCK HOLES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
EACH	3.50	5.00	7.50	10.50	7.50	12.00

WATER GAGE COLUMNS.— Fig. 396.

WITH TRIMMINGS, AS FOLLOWS: WATER GAGE, STEAM GAGE AND SIPHON, AND STUFFING-BOX GAGE COCKS.

NO.	1	2	3	4	5	6
FIG. OF WATER GAGE	391	392	392	393	393	393
SIZE OF GAGE COCKS	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
DIAMETER STEAM GAGE	5	5	5	6	6	6
WITH IRON CASE STEAM GAGE EACH	20.00	35.00	45.00	50.00	55.00	57.00

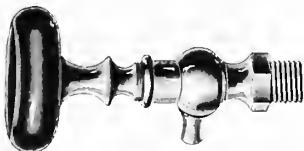


FIG. 397. WITHOUT STUFFING-BOX.

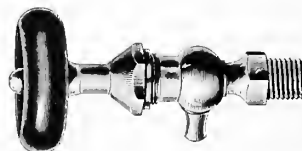


FIG. 398. WITH STUFFING-BOX.

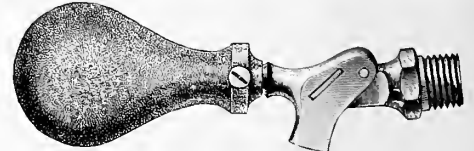


FIG. 399. REGISTER GAGE COCK.

GAGE COCKS.— Figs. 397, 398, and 399.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
FIG. 397, WOOD HANDLE EACH		.95	1.00	1.10
FIG. 398, WOOD HANDLE, WITH STUFFING-BOX EACH		1.10	1.15	1.25
FIG. 399, REGISTER GAGE COCK EACH		1.00	1.00	1.10

ENGINE AND BOILER TRIMMINGS.

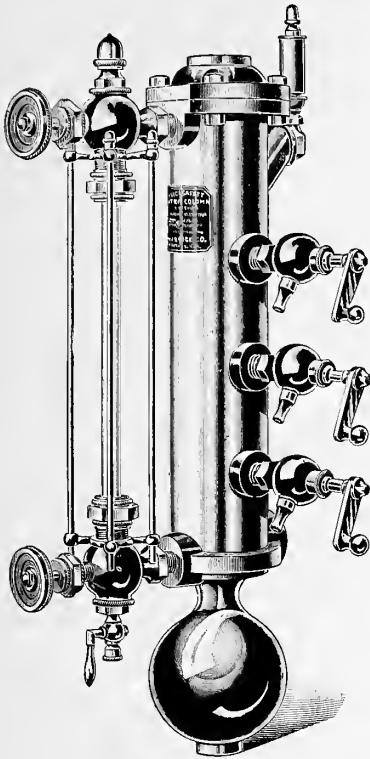


FIG. 400. GOVERNMENT COLUMN.

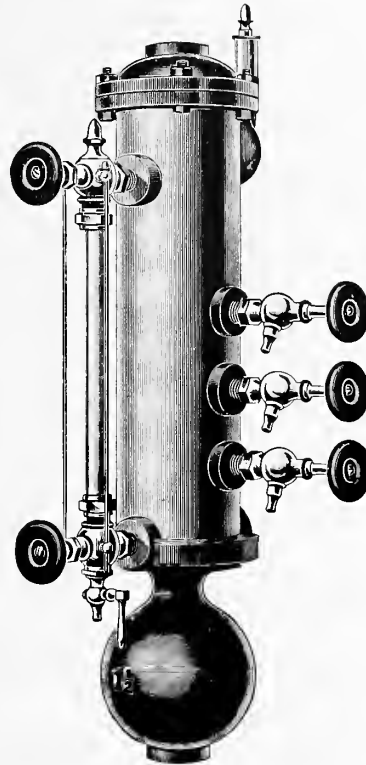


FIG. 401. No. 1 1/2 COLUMN.

RELIANCE SAFETY WATER COLUMNS.

NUMBER	1	1 1/2	2	5	6	7	9	11	13	15	Government Column.
STYLE	H. & L.	H. & L.	Low.	H. & L.	Low.	H. & L.	H. & L.	H. & L.	H. & L.	H. & L.	----
JAPANNED, WITHOUT GAGE COCK OR WATER GAGE . EACH	28.00	28.00	25.00	30.00	28.00	40.00	40.00	42.50	45.00	50.00	----
JAPANNED, WITH GAGE COCK AND WATER GAGE . EACH	35.00	35.00	32.00	40.00	37.00	50.00	50.00	55.00	60.00	65.00	----
FIN'D BRASS, WITHOUT GAGE COCK OR WATER GAGE, EACH	70.00	----	65.00	80.00	75.00	----	----	----	----	----	----
FIN'D BRASS, WITH GAGE COCK AND WATER GAGE . EACH	85.00	----	80.00	100.00	95.00	----	----	----	----	----	125.00

DESCRIPTION.

NUMBER	1	1 1/2	2	5	6	7	9	11	13	15	Government Column.
DIMENSIONS OVER ALL	3 3/4 x 23	4 1/8 x 28	3 3/4 x 23	4 1/2 x 29 1/2	4 1/2 x 27	----	----	----	----	----	4 1/2 x 30
DIAMETER BOILER (MAXIMUM)	5 1/4	5 1/4	60	Any Diameter.	Any Diameter.	----	----	----	----	----	Any Diameter.
STEAM PRESSURE, LBS. (MAXIMUM)	80	150	100	Any Pressure.	Any Pressure.	----	----	----	----	----	Any Pressure.
SIZE BOILER CONNECTIONS	1	1 1/4	1	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/4
VARIATIONS BETWEEN ALARMS . . . INCHES	6	6	----	8	----	12	18	24	30	36	8
LENGTH OF GLASS	12	12	12	16	16	18	----	----	----	----	16
DISTANCE BETWEEN GAGE COCKS	3	3	3	4	4	6	----	----	----	----	4
SIZE TRIMMINGS	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

Numbers 9, 11, 13, and 15 are for use on vertical boilers; all other sizes for horizontal boilers.

NOTE.—When not otherwise stipulated, we ship the columns trimmed, with gage cocks and water gage. When ordering, state whether right or left hand columns are wanted. A column having gage cocks on the left-hand side when looking at the glass, which is on the front, is a left-hand column, and *vice versa*.

ENGINE AND BOILER TRIMMINGS.**EDSON'S PRESSURE-RECORDING AND ALARM GAGE.**

FOR RECORDING STEAM, WATER, GAS, NATURAL GAS, AIR, AMMONIA, OIL, BLAST-FURNACE,
AND PIPE-LINE PRESSURE.

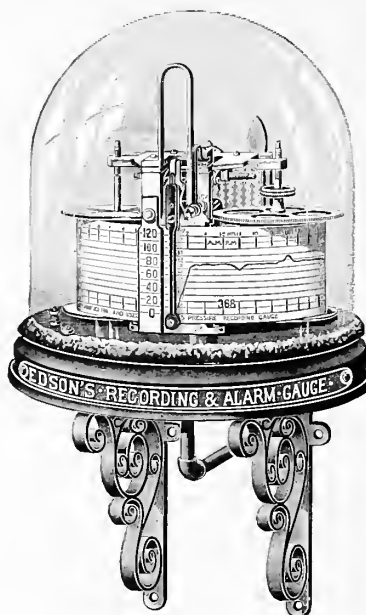


FIG. 402. EDSON'S RECORDING AND
ALARM GAGE. STYLE No. 2.

Style No. 1, \$85.00.

Style No. 2, \$80.00.



FIG. 403. CLOW SECURITY FUSIBLE PLUG.

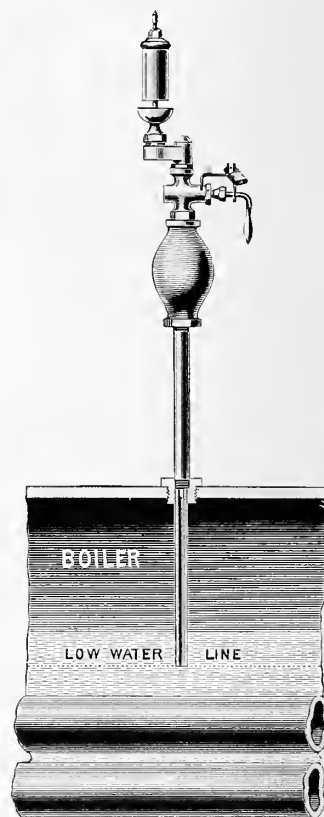


FIG. 404. SHOWING CONNECTION TO BOILER.

CLOW SECURITY FUSIBLE PLUG AND LOW-WATER ALARM.

Our Alarm is a positive indicator of low water. When the metal fuses, it is forced by the pressure of escaping steam into upper part of the offset, and the steam free of the metal operates the whistle, thus securing an absolutely sure and safe Low-Water Alarm. Directions for attaching and operating accompany each Alarm.

Complete, with Lock and Key, each, \$10.00.

Extra Fusible Plugs, each, 50 cents.

ENGINE AND BOILER TRIMMINGS.

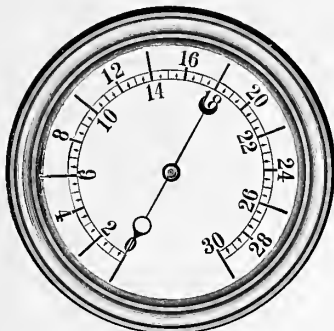


FIG. 405. LOW PRESSURE GAGE.

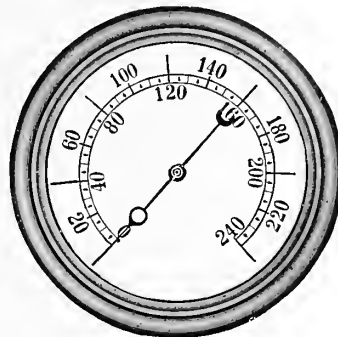


FIG. 406. HIGH PRESSURE GAGE.

STEAM PRESSURE OR VACUUM GAGES.

BOURDON SINGLE SPRING.

Size Dial.	Brass Case.	Iron Case.	Brass Case. Nickel Plated.	Iron Case. N. P. Ring.
Inches.				
12	75.00	50.00	79.00	51.50
10	40.00	32.00	43.00	33.00
8½	30.00	22.00	32.50	22.75
6¾	20.00	16.00	22.00	16.60
6	16.00	13.00	17.50	13.50
5½	12.00	10.00	13.25	10.25
5	11.00	8.00	12.00	8.20
4½	10.00	8.00	11.00	8.20
3½	9.00	7.00	9.75	7.18
3 in. Dial or smaller.	8.00	6.00	8.60	6.15

BOURDON DOUBLE SPRING.

Size Dial.	Brass Case.	Iron Case.	Brass Case. Nickel Plated.	Iron Case. N. P. Ring.
Inches.				
12	80.00	55.00	84.00	56.50
10	45.00	37.00	48.00	38.00
8½	34.00	25.00	36.50	25.75
6¾	22.00	18.00	24.00	18.60
6	18.00	15.00	19.50	15.50
5½	14.00	12.00	15.25	12.25
5	13.00	11.00	14.00	11.20
4½	12.00	10.00	13.00	10.20

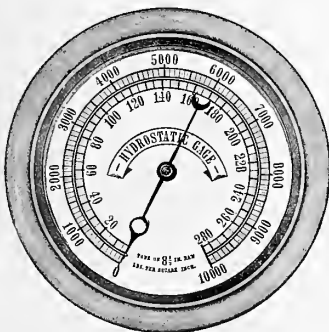


FIG. 407. HYDRAULIC OR HYDROSTATIC GAGE.

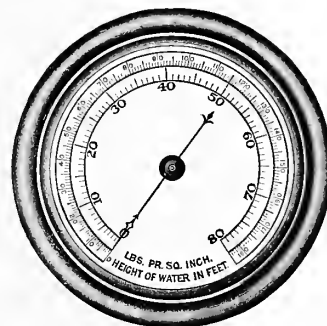


FIG. 408. COMBINATION WATER WORKS GAGE.

HYDRAULIC OR HYDROSTATIC GAGES.

Size Dial.	Pounds per Sq. Inch.	Brass Case.	Iron Case.	Brass Case. Nickel Plated.	Iron Case. N. P. Ring.
Inches.					
12	20,000	125.00	110.00	129.00	111.50
10	20,000	100.00	90.00	103.00	91.00
8½	20,000	80.00	70.00	82.50	70.75
6¾	10,000	60.00	50.00	62.00	50.60
6	6,000	40.00	35.00	41.50	35.50
Maximum Hand, Extra	----	----	5.00	----	----

COMBINATION WATER WORKS GAGES.

Size Dial.	Brass Case.	Iron Case.	Brass Case. Nickel Plated.	Iron Case. N. P. Ring.
Inches.				
12	80.00	60.00	84.00	61.50
10	50.00	40.00	53.00	41.00
8½	40.00	30.00	42.50	30.75
6¾	25.00	20.00	27.00	20.60
6	20.00	16.00	21.50	16.50
5½	16.00	14.00	17.25	14.25

ENGINE AND BOILER TRIMMINGS.



FIG. 409.



FIG. 410.

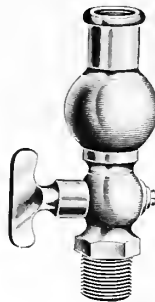


FIG. 411.

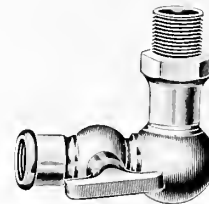


FIG. 412.



FIG. 413.

STEAM GAGE SIPHONS.

FIGURE	409	410	411	412	413
EACH	1.00	1.25	1.50	1.50	.50



FIG. 414.

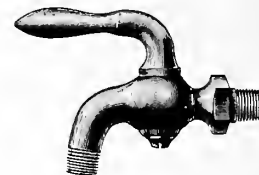


FIG. 415.

CYLINDER COCKS.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
FIG. 414	EACH	1.20	1.40	1.80
FIG. 415	EACH	1.25	1.50	2.00

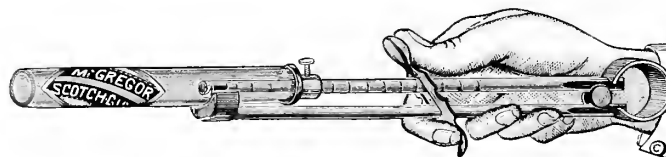


FIG. 416. CHESTERTON GAGE GLASS CUTTER.

CHESTERTON GAGE GLASS CUTTERS.—Fig. 416.

EACH	2.00
EXTRA WHEELS .....	.15

ENGINE AND BOILER TRIMMINGS.



FIG. 417.



FIG. 418.



FIG. 419.

AIR COCKS.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
FIG. 417	EACH	.40	.45	.50	.60
FIG. 418	EACH	.55	.60	.65	.75
FIG. 419	EACH	.45	.50	.90	1.00

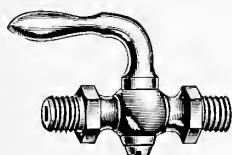


FIG. 420.



FIG. 421.

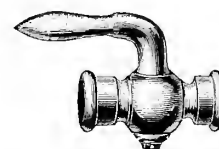


FIG. 422.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
FIG. 420	EACH	.60	.65	1.05	1.15
FIG. 421	EACH	.65	.75	.90	----
FIG. 422	EACH	.80	.85	.95	----



FIG. 423.



FIG. 424.



FIG. 425.

SIZE	INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
FIG. 423	EACH	.65	.70	.75	1.10
FIG. 424	EACH	.80	.85	.90	1.00
FIG. 425	EACH	.85	1.05	1.15	1.40

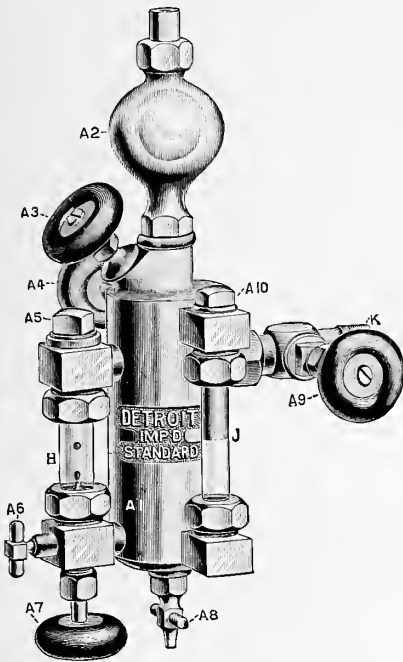


FIG. 433.
DETROIT IMPROVED SIGHT FEED LUBRICATOR.

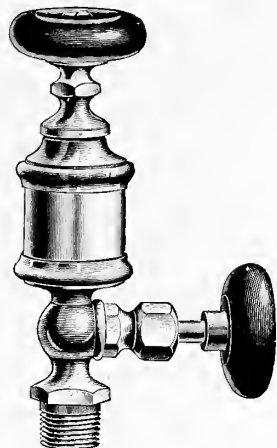


FIG. 434. PLAIN LUBRICATOR.

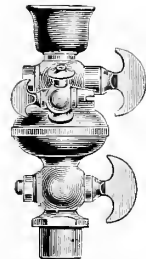


FIG. 435. GLOBE LUBRICATOR.

DETROIT IMPROVED SIGHT FEED LUBRICATORS.— Fig. 433.

CAPACITY	$\frac{1}{2}$ Pint.	$\frac{1}{2}$ Pint.	1 Pint.	1 Quart.	$\frac{1}{2}$ Gallon.	1 Gallon.
SIZE FOR CYLINDER . .	Under 10-inch	10 to 12-inch	12 to 18-inch	18 to 30-inch	30-inch and over	-----
POLISHED BRASS . . EACH	17.00	22.00	30.00	45.00	60.00	75.00
NICKEL-PLATED . . EACH	20.00	25.00	35.00	50.00	65.00	80.00

WOOD WHEEL LUBRICATORS.— Fig. 434.

DIAMETER OF BODY INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	3
PIPE THREAD	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
EACH	2.00	2.20	2.40	2.60	2.90	3.25	3.75	4.75
WITH AIR COCK EACH	3.00	3.20	3.40	3.60	3.90	4.25	4.75	5.75

GLOBE LUBRICATORS.— Fig. 435.

DIAMETER OF GLOBE INCHES	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$
PIPE THREAD	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
WITH COCKS EACH	3.00	3.75	4.50	5.50	6.50	9.00
WITH VALVES EACH	----	4.25	4.75	5.50	6.50	9.00



FIG. 436. HAND CYLINDER OIL PUMP.

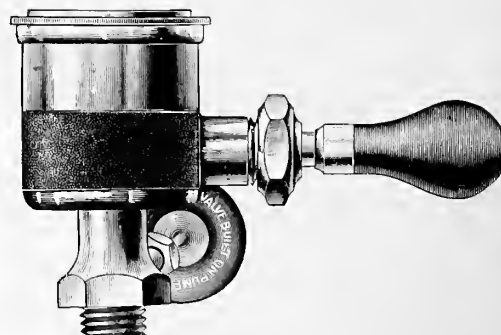


FIG. 437. HAND CYLINDER OIL PUMP, WITH VALVE.

HAND CYLINDER OIL PUMPS.—Figs. 436 and 437.

CAPACITY	PINTS	$\frac{1}{4}$	$\frac{1}{2}$	1
SIZE OF BOWL		$2\frac{1}{4} \times 2\frac{1}{4}$	$2\frac{3}{4} \times 2\frac{3}{4}$	$3\frac{1}{2} \times 3\frac{1}{2}$
WITH SCREW TOP, BRASS FINISH	EACH	3.50	5.00	7.50
WITH STRAINER TOP, BRASS FINISH	EACH	3.65	5.25	7.80



FIG. 438.

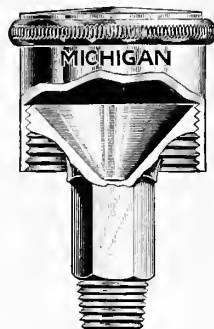


FIG. 439.



FIG. 440.

GREASE CUP.—Fig. 438.

OUTSIDE DIAMETER	INCHES	$1\frac{1}{4}$	$1\frac{5}{8}$	2	$2\frac{3}{8}$	$2\frac{3}{4}$	$3\frac{1}{2}$
CAPACITY	OUNCES	$\frac{1}{2}$	1	$2\frac{1}{4}$	$3\frac{3}{8}$	6	10
SIZE OF SHANK	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
BRASS FINISH	EACH	1.50	2.00	2.75	3.50	4.25	5.00
NICKEL-PLATED	EACH	1.75	2.25	3.05	3.85	4.75	5.75

GREASE CUP.—Fig. 439.

DIAMETER	INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
PIPE THREAD		$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
FINISHED BRASS	EACH	.70	.90	1.15	1.40	2.15	2.90

SPRING COMPRESSION GREASE CUP.—Fig. 440.

CAPACITY	OUNCES	1	$2\frac{1}{4}$	$3\frac{3}{8}$	6	10
FINISHED BRASS	EACH	2.00	2.75	3.50	4.25	5.00
NICKEL-PLATED	EACH	2.25	3.05	3.85	4.75	5.75
OUTSIDE DIAMETER	INCHES	$1\frac{5}{8}$	2	$2\frac{3}{4}$	$2\frac{3}{4}$	$3\frac{1}{2}$
HEIGHT OVER ALL	INCHES	$3\frac{3}{8}$	$4\frac{3}{8}$	$5\frac{1}{4}$	$5\frac{1}{4}$	$6\frac{1}{2}$
SIZE OF SHANK	INCHES	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$

ENGINE AND BOILER TRIMMINGS.

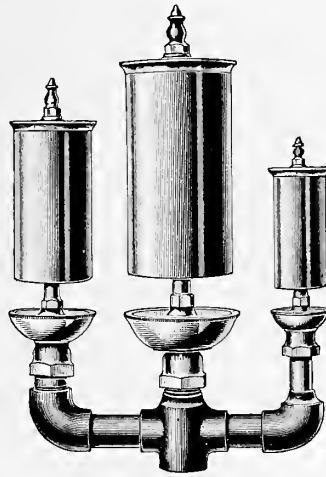
FIG. 441.
WITH VALVE AND ADJUSTABLE LEVER.FIG. 442.
ANY NUMBER OR SIZE OF BELLS TO ORDER.

FIG. 443. PLAIN.

WHISTLES.—Figs. 441 and 443.

DIAMETER OF BELL - INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	8	10
SIZE PIPE - - - - - INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$
WITH VALVE - - - - - EACH	3.50	3.75	4.00	4.75	6.50	8.00	11.00	14.00	22.00	30.00	80.00	175.00
PLAIN - - - - - EACH	1.70	2.00	2.50	3.25	4.50	6.00	8.50	11.00	18.00	24.00	65.00	125.00

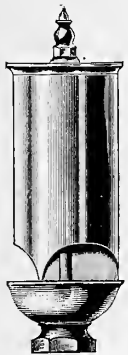


FIG. 444. PLAIN.



FIG. 445. WHISTLE VALVE.

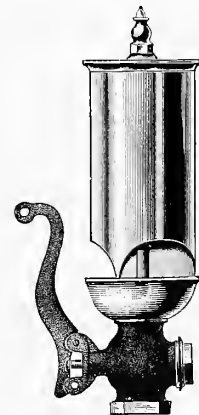


FIG. 446. WITH VALVE AND REVERSIBLE LEVER.

SINGLE BELL CHIME STEAM WHISTLES.

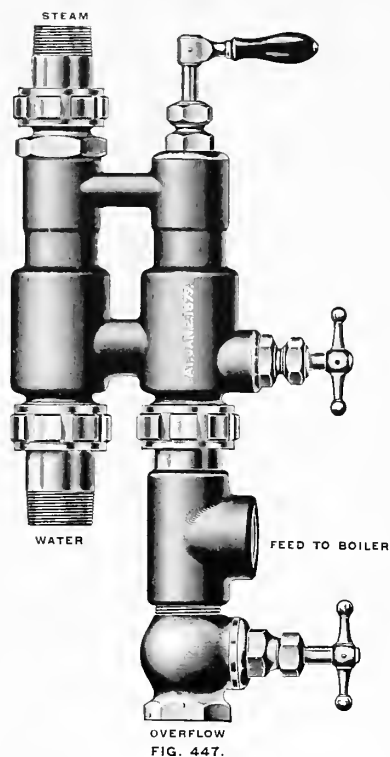
DIAMETER OF BELL - INCHES	2	3	4	5	6	8	10	12
SIZE PIPE - - - - - INCHES	$\frac{3}{4}$	1	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	3	3
PLAIN - - - - - EACH	5.00	8.00	14.00	22.00	30.00	70.00	110.00	150.00
WITH VALVE - - - - - EACH	7.00	11.00	18.00	28.00	38.00	90.00	140.00	200.00

WHISTLE VALVES.—Fig. 445.

SIZE - - - - - INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
EACH - - - - -	2.25	2.75	3.25	4.00	5.50	9.50	20.00	30.00

ENGINE AND BOILER TRIMMINGS.

HANCOCK STATIONARY INSPIRATORS.—Fig. 447.



No. of Inspirator.	CONNECTIONS.		Gallons per hour—60 lbs. pressure.	Horse Power.	Price.
	Suction and Feed	Steam.			
7-1	3/8	3/8	60	8	16.00
8-2	1/2	3/8	85	12	18.00
10-3	3/4	1/2	120	16	20.00
12-4	1	3/4	220	30	25.00
15-5	1 1/2	1	300	40	30.00
17-6	2	1 1/2	420	56	40.00
20-7	2 1/2	2	540	72	45.00
22-8	3	2 1/2	720	96	55.00
25-9	3 1/2	3	900	120	60.00
30-10	4	3 1/2	1260	168	75.00
35-11	4 1/2	4	1740	230	90.00
40-12	5	4 1/2	2230	298	110.00
45-13	5 1/2	5	2820	376	125.00
50-14	6	5 1/2	3480	464	150.00
55-15	6 1/2	6	3800	600	175.00

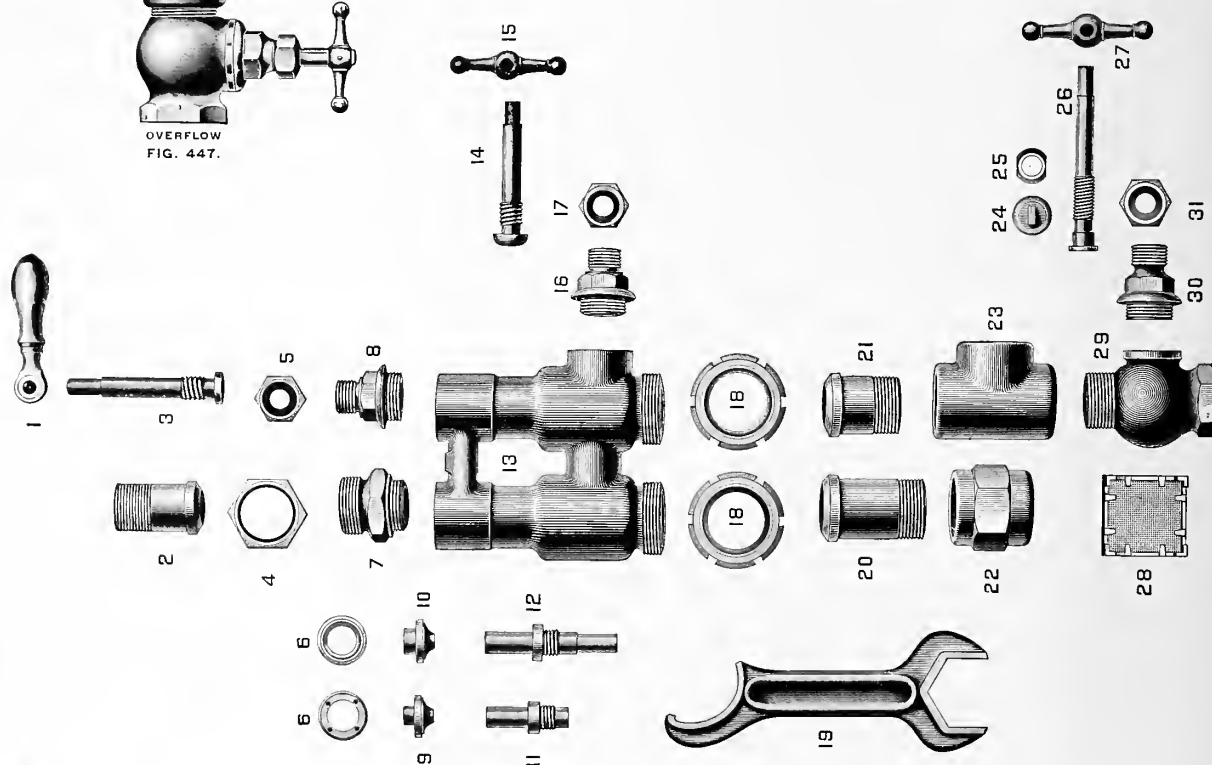


FIG. 448. REPAIRS FOR HANCOCK STATIONARY INSPIRATORS.

PARTS ARE SHOWN AS NEAR AS POSSIBLE TO THEIR PLACE IN COMPLETE INSPIRATOR.

Nos. 1, 3, 5, and 8 together make Top Bonnet complete.

Nos. 14, 15, 16, and 17 together make Overflow Bonnet complete.

Nos. 24, 25, 26, 27, 29, 30, and 31 together make Overflow Valve complete.

Nos. 9, 10, 11, and 12 together make full set of Jets.

ENGINE AND BOILER TRIMMINGS.

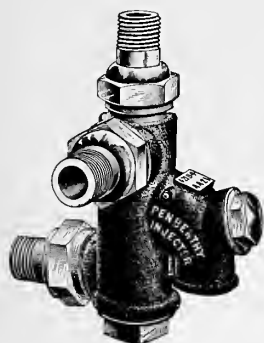


FIG. 449. PENBERTHY INJECTOR.

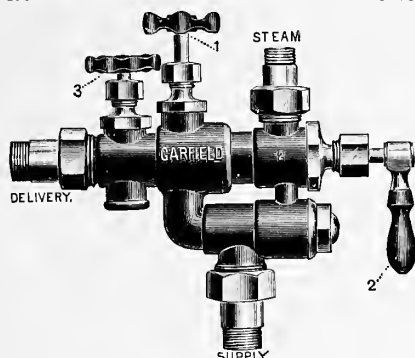


FIG. 450. GARFIELD INJECTOR.

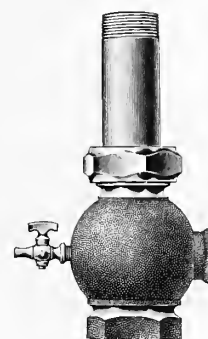


FIG. 451. JET PUMP.

PENBERTHY INJECTORS.—Fig. 449.

NUMBER	00	A	AA	B	BB	C	CC
EACH	16.00	18.00	20.00	25.00	30.00	40.00	45.00
GALS. PER HOUR, 60 LBS. PRESSURE, 4-FT. LIFT - MAX.	80	120	165	250	340	475	575
GALS. PER HOUR, 60 LBS. PRESSURE, 4-FT. LIFT - MIN.	55	70	90	135	165	300	350
PIPE CONNECTIONS - INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1
HORSE-POWER	4 to 8	8 to 10	10 to 15	15 to 25	25 to 35	35 to 50	50 to 60
NUMBER	D	DD	E	EE	F	FF	
EACH	55.00	60.00	75.00	90.00	110.00	125.00	----
GALS. PER HOUR, 60 LBS. PRESSURE, 4-FT. LIFT - MAX.	750	920	1300	1740	2270	2820	----
GALS. PER HOUR, 60 LBS. PRESSURE, 4-FT. LIFT - MIN.	400	500	700	900	1100	1400	----
PIPE CONNECTIONS - INCHES	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	----
HORSE-POWER	60 to 95	95 to 120	120 to 165	165 to 230	230 to 290	290 to 365	----

GARFIELD INJECTORS.—Fig. 450.

NUMBER	00	0	1	2	3	4	5	6
EACH	16.00	18.00	20.00	25.00	30.00	40.00	45.00	55.00
INSIDE DIAMETER STEAM PIPE - INCHES	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1
INSIDE DIAMETER SUPPLY PIPE - INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$
INSIDE DIAMETER DELIVERY PIPE - INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$
GALLONS PER HOUR	60	90	120	220	300	420	540	720
HORSE-POWER	2 to 5	5 to 10	10 to 15	15 to 24	24 to 35	35 to 50	50 to 65	65 to 90
NUMBER	7	8	9	10	11	12	13	14
EACH	60.00	75.00	90.00	110.00	125.00	150.00	180.00	200.00
INSIDE DIAMETER STEAM PIPE - INCHES	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	2
INSIDE DIAMETER SUPPLY PIPE - INCHES	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$
INSIDE DIAMETER DELIVERY PIPE - INCHES	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$
GALLONS PER HOUR	900	1200	1700	2200	2800	3400	4000	4500
HORSE-POWER	90 to 115	115 to 150	150 to 200	200 to 275	275 to 350	350 to 425	425 to 500	500 to 600

JET PUMPS.—Fig. 451.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
BRASS JETS	EACH	8.00	10.00	12.00	15.00	----
IRON BRASS-MOUNTED JETS	EACH	----	----	----	----	18.00
SUCTION PIPE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
DISCHARGE PIPE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
STEAM PIPE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
CAPACITY	GALLONS PER MINUTE	8 to 10	12 to 15	15 to 20	25 to 30	30 to 40

ENGINE AND BOILER TRIMMINGS.

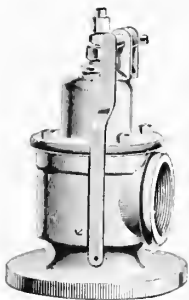


FIG. 452. STATIONARY.



FIG. 453. BRASS PORTABLE.

FIG. 454. "STANDARD" WATER
RELIEF VALVE.FIG. 455. "UNDERWRITER"
RELIEF VALVE.

CROSBY POP SAFETY AND WATER RELIEF VALVES.

SIZE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
HORSE-POWER OF BOILER	5	10	20	30	40	75	100	125	150	175	200	200
FIG. 452, WITHOUT LOCKUP	---	---	---	---	30.00	50.00	65.00	80.00	100.00	115.00	125.00	180.00
FIG. 452, WITH LOCKUP	---	---	---	---	35.00	55.00	75.00	90.00	110.00	125.00	135.00	200.00
FIG. 453	10.00	12.00	15.00	20.00	30.00	---	---	---	---	---	---	---
FIG. 454, IRON	---	---	---	---	30.00	50.00	65.00	80.00	100.00	115.00	125.00	180.00
FIG. 455, IRON	---	---	---	---	30.00	50.00	65.00	80.00	100.00	115.00	125.00	180.00

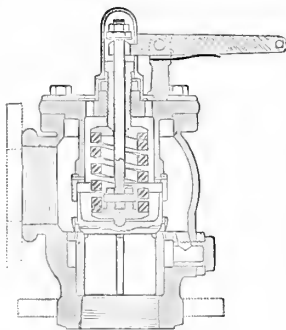


FIG. 456. STATIONARY.

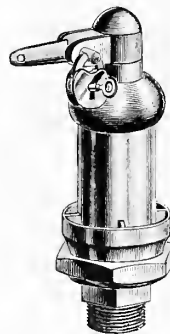


FIG. 457. BRASS PORTABLE.

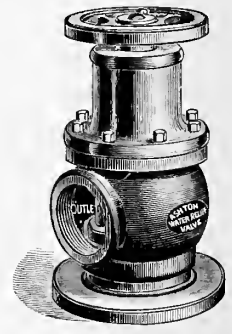
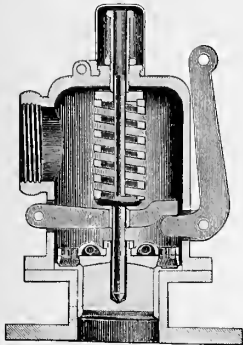
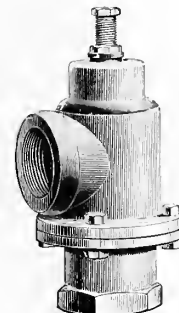


FIG. 458. WATER RELIEF VALVE.

ASHTON POP SAFETY AND RELIEF VALVES.

SIZE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
DIAMETER OF INLET FLANGE	---	---	---	---	---	8	9	10	10	12	12	14
HORSE-POWER OF BOILER	8	10	15	25	35	50	75	100	120	140	170	200
FIG. 456, IRON	---	---	---	---	---	40.00	55.00	64.00	70.00	80.00	85.00	125.00
FIG. 457, BRASS	6.00	8.00	10.00	12.00	22.00	---	---	---	---	---	---	---
FIG. 458, IRON	---	---	---	30.00	40.00	60.00	75.00	80.00	85.00	105.00	125.00	150.00
FIG. 458, BRASS	7.00	9.00	12.50	16.50	23.00	---	---	---	---	---	---	---

ENGINE AND BOILER TRIMMINGS.

FIG. 459.
STATIONARY.FIG. 460.
BRASS, PORTABLE.FIG. 461.
BRASS WATER RELIEF VALVE.FIG. 462.
IRON WATER RELIEF VALVE.

AMERICAN POP SAFETY AND RELIEF VALVES.

SIZE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
DIAMETER BASE FLANGE . INCHES	---	---	---	---	---	8	10	10	11	---	11	12
HORSE-POWER OF BOILER . . .	6	10	20	30	40	75	100	125	150	175	200	225
FIG. 459 EACH	---	12.00	15.00	20.00	30.00	50.00	65.00	80.00	100.00	115.00	125.00	180.00
FIG. 460 EACH	10.00	12.00	15.00	20.00	30.00	---	---	---	---	---	---	---
FIG. 461 EACH	---	12.00	15.00	20.00	30.00	50.00	65.00	80.00	100.00	150.00	---	---
FIG. 462 EACH	---	---	---	---	30.00	50.00	65.00	80.00	100.00	150.00	---	---

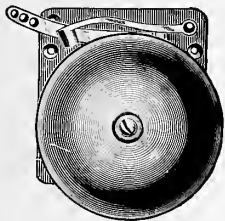


FIG. 463. GONG.

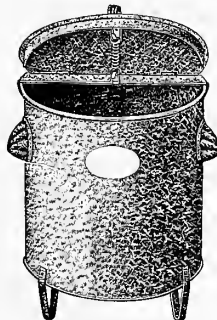


FIG. 464. OIL WASTE CAN.



FIG. 465. CONE TOP OIL CAN.

GONG BELLS. Polished Bell-Metal.—Fig. 463.

DIAMETER INCHES	4	5	6	7	8	10	12	14	16	18
EACH	2.75	3.25	3.90	5.00	6.00	8.00	14.00	25.00	30.00	35.00

WASTE AND OIL CANS.—Figs. 464 and 465.

FIG. 464. OIL WASTE CAN, DIAMETER $11\frac{1}{4}$ INCHES, HEIGHT 15 INCHES	EACH	2.50
FIG. 465. WITH TWO PUMPS, MEASURING AND LIFT, CAPACITY 60 GALLONS	EACH	20.00

Special sizes Oil Waste Cans to order.

ENGINE AND BOILER TRIMMINGS.



FIG. 466.
No. 13 AND SMALLER.

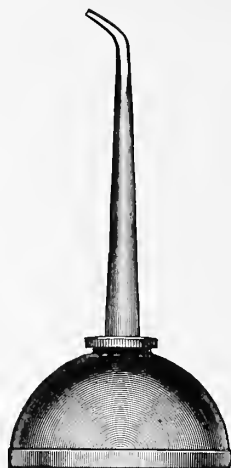


FIG. 467. No. 14 AND LARGER.

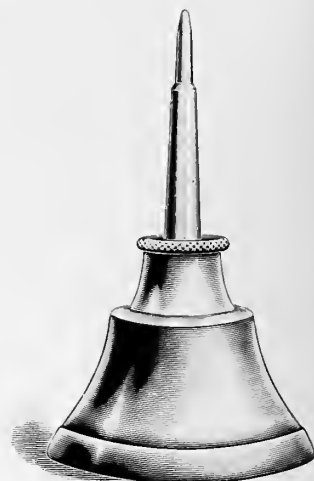


FIG. 468. MALLEABLE OILER.



FIG. 469. ENGINEERS' FILLER.



FIG. 470. STEEL TALLOW POT.

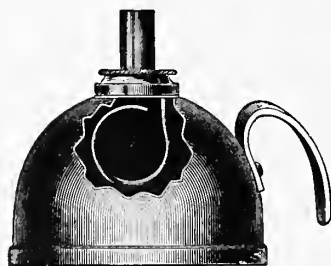


FIG. 471. STEEL JACKET LAMP.

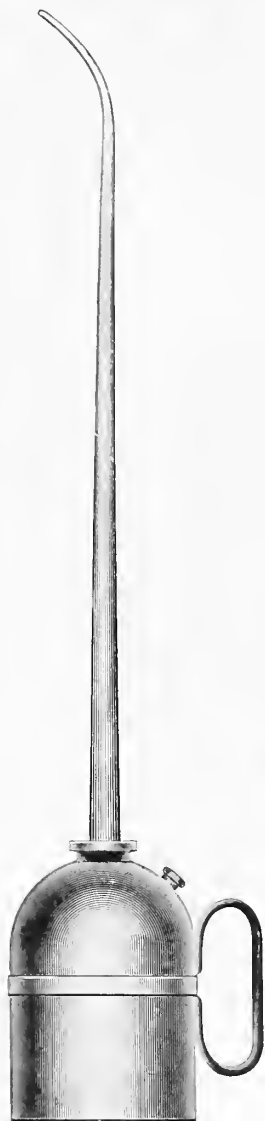


FIG. 472. RAILROAD OILER

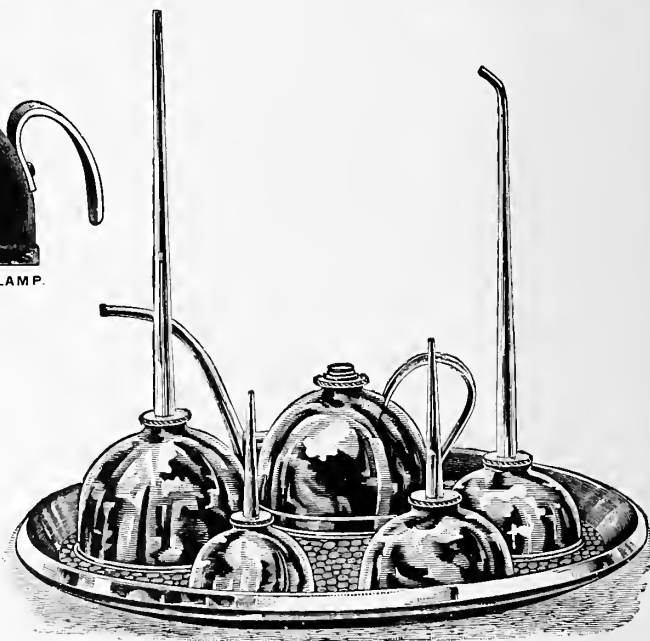


FIG. 473. ENGINEERS' SET.

For lists, see next page.

ENGINE AND BOILER TRIMMINGS.**BRASS AND STEEL OILERS.—Figs. 466 and 467.**

NUMBER	12	13	14	14a	14b	15	16
DIAMETER INCHES	2 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$
LENGTH OF SPOUT INCHES	2 $\frac{1}{2}$	3	9	3	9	3	9
STEEL PER DOZEN	4.50	5.50	6.50	7.50	8.50	9.25	10.50
BRASS PER DOZEN	6.50	8.00	9.20	---	---	12.00	14.00

MALLEABLE OILERS AND HAND LAMPS.—Fig. 468.

NUMBER	1	2	3
MALLEABLE OILERS PER DOZEN	3.60	4.00	4.40
MALLEABLE HAND LAMPS, WITH WICK TUBES PER DOZEN	5.00	---	---

ENGINEERS' FILLERS.—Fig. 469.

NUMBER	19	19a	210	211	190	200	201
CAPACITY	1 Pint	1 $\frac{1}{2}$ Pints	1 Quart	2 Quarts	1 $\frac{1}{2}$ Pints	1 Quart	2 Quarts
STEEL PER DOZEN	14.00	17.00	20.00	24.00	---	---	---
BRASS PER DOZEN	---	---	---	---	22.00	30.00	34.00

Add to above lists for Patent Attachment, \$1.00 per dozen.

STEEL TALLOW POTS.—Fig. 470.

5 INCHES DIAMETER, 5 INCHES HIGH, CAPACITY 1 QUART	PER DOZEN	21.00
6 INCHES DIAMETER, 6 INCHES HIGH, CAPACITY 2 QUARTS	PER DOZEN	25.00

STEEL JACKET LAMPS.—Fig. 471.

DIAMETER INCHES	3 $\frac{3}{8}$	3 $\frac{3}{4}$	4 $\frac{1}{4}$
PER DOZEN	6.00	9.00	12.00

RAILROAD OILERS.—Fig. 472.

NUMBER	10	11	11a	17	18	18a
DIAMETER INCHES	3 $\frac{3}{8}$	4 $\frac{1}{4}$	5	3 $\frac{3}{8}$	4 $\frac{1}{4}$	5
HEIGHT INCHES	5	6	8	5	6	8
LENGTH OF SPOUT INCHES	12	18	18	12	18	18
CAPACITY	1 Pint	1 Quart	2 Quarts	1 Pint	1 Quart	2 Quarts
STEEL PER DOZEN	14.00	18.00	20.00	---	---	---
BRASS PER DOZEN	---	---	---	18.00	21.00	24.00

OILER SETS.—Fig. 473.

NUMBER OF PIECES	5	6
ENGINEERS' BRASS SETS EACH	6.00	9.00
ENGINEERS' NICKEL-PLATED SETS EACH	8.00	11.00
STEAMBOAT BRASS SETS EACH	7.00	10.00
STEAMBOAT NICKEL-PLATED SETS EACH	9.00	12.00

Steamboat sets are so made as to prevent the motion of the vessel displacing the oilers.

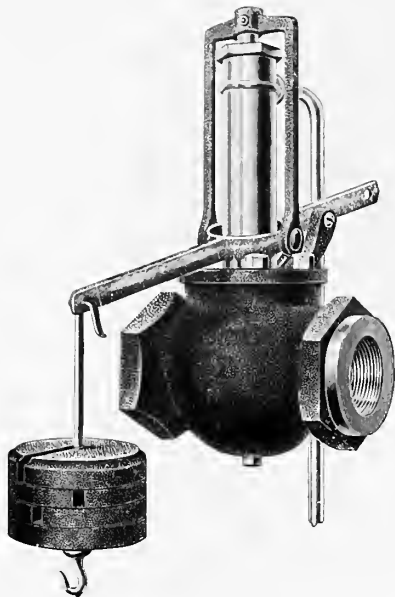


FIG. 474.

DAVIS PRESSURE REGULATORS.—Figs. 474 and 475.

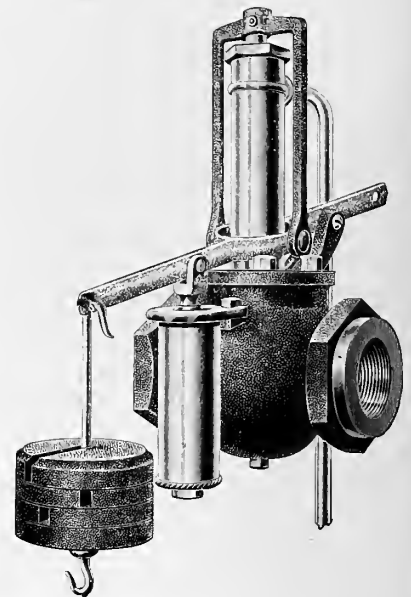


FIG. 475.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8	10	12
FIG. 474	EACH	20.00	22.00	24.00	25.00	30.00	35.00	40.00	50.00	60.00	75.00	100.00	135.00	175.00	275.00	350.00
FIG. 475	EACH	25.00	27.00	29.00	30.00	36.00	42.00	48.00	58.00	70.00	90.00	120.00	160.00	200.00	300.00	385.00

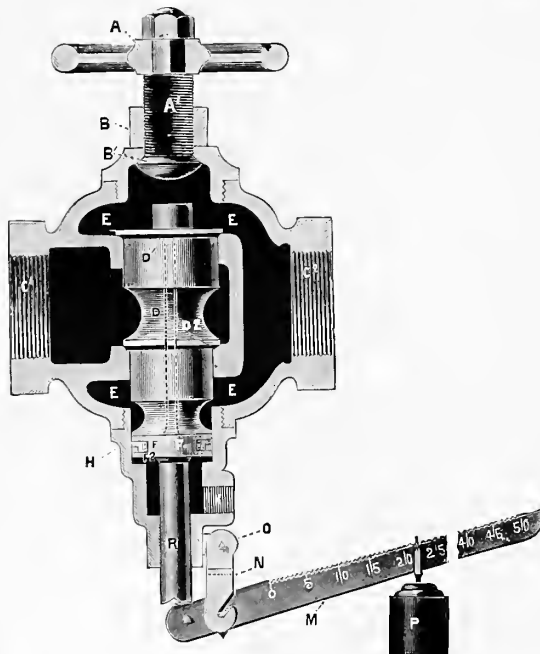


FIG. 476. WITH LEVER, FOR GENERAL USE.

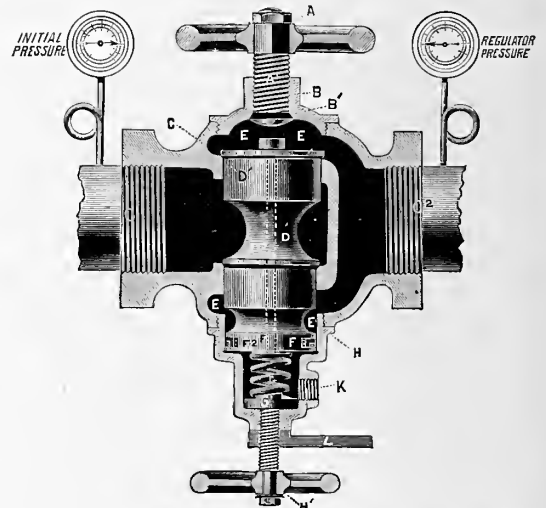


FIG. 477. WITH SCREW, FOR RAILWAY AND MARINE USE.

HENNEBOEHLE'S AUTOMATIC PRESSURE REGULATORS.—Figs. 476 and 477.

SIZE	INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4	5	6	8	10	12	16
ALL BRASS	EACH	24.00	30.00	37.00	46.00	60.00								
IRON BODY, BRASS TRIMMINGS	EACH						75.00	105.00	140.00	185.00	285.00	410.00	510.00	700.00

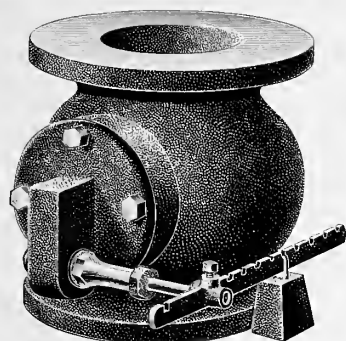


FIG. 478.

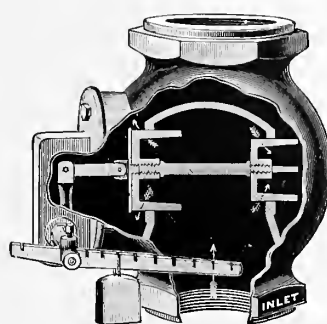


FIG. 479. SECTIONAL.

DAVIS' NOISELESS BACK-PRESSURE VALVES.—Figs. 478 and 479.

SIZE INCHES	2	2½	3	3½	4	4½	5	6	7
SCREWED EACH	14.00	16.00	18.00	22.00	25.00	30.00	40.00	60.00	80.00
SIZE INCHES	8	10	12	14	16	18	20	22	24
FLANGED EACH	100.00	145.00	220.00	345.00	465.00	600.00	750.00	900.00	1050.00
DIAMETER OF FLANGE INCHES	14	17	19	21	24	26	29	31	34

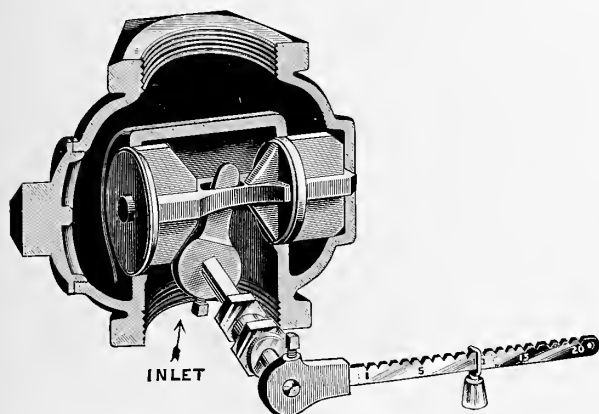


FIG. 480. HENNEBOEHLE'S BACK-PRESSURE VALVE.

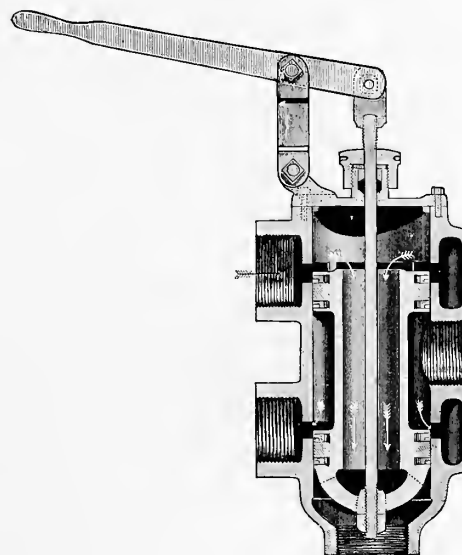


FIG. 481. HYDRAULIC VALVE.

HENNEBOEHLE'S NOISELESS BACK-PRESSURE VALVES.—Fig. 480.

SIZE INCHES	2½	3	4	5	6	7	8	10	12	14	16	18
EACH	16.00	18.00	26.00	40.00	58.00	78.00	98.00	142.00	215.00	340.00	460.00	590.00

HENNEBOEHLE'S BALANCED HYDRAULIC VALVES.—Fig. 481.

SIZE INCHES	1	1½	1½	2	2½	3
EACH	36.00	45.00	56.00	70.00	90.00	115.00

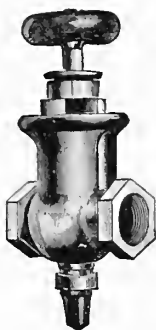


FIG. 482.
CURTIS PRESSURE REGULATOR.

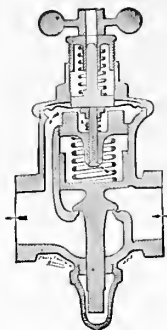


FIG. 483.
SECTIONAL.

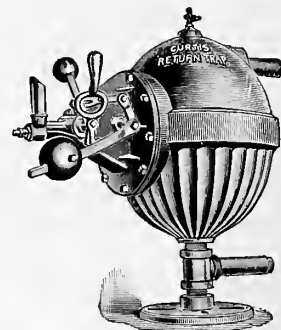


FIG. 484.
CURTIS RETURN STEAM TRAP.

CURTIS PRESSURE REGULATORS, FOR STEAM AND WATER.—Figs. 482 and 483.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4	5	6
EACH		22.00	28.00	35.00	44.00	54.00	72.00	100.00	135.00	180.00

CURTIS RETURN STEAM TRAPS.—Fig. 484.

NUMBER	1	2	3	4
EACH	100.00	150.00	200.00	300.00
DRAINAGE CAPACITY, IN FEET OF 1-INCH PIPE	4000 to 5000	8000 to 10000	15000 to 20000	30000 to 40000
SIZE OF STEAM PIPE CONNECTIONS	1	1	1½	1½
RECEIVERS	15.50	19.50	26.00	45.00

Receivers and Check Valves not included in price of Trap.

In all cases the middle pipe is the outlet.

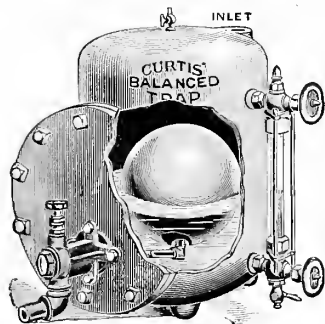


FIG. 485. CURTIS BALANCED STEAM TRAP.

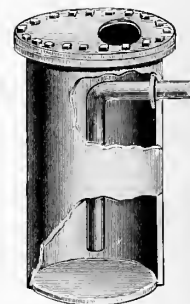


FIG. 486. CAST-IRON STEAM CATCH-BASIN.

CURTIS BALANCED STEAM TRAPS.—Fig. 485.

NUMBER	000	00	0	1	2	2 $\frac{1}{2}$	3	4	5
SIZE AND CONDENSING CAPACITY, IN FEET OF 1-INCH PIPE	1000	1500	2500	4000	7000	10000	15000	26000	45000
SIZE OF INLET AND OUTLETS	1 $\frac{1}{2}$ INCHES	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	3
EACH	15.00	20.00	25.00	30.00	40.00	55.00	75.00	100.00	125.00

Glass Water Gage, \$3.00 extra.

STEAM CATCH-BASIN, CAST-IRON.—Fig. 486.

DEPTH	INCHES	36	42	48	54	60
24 INCHES DIAMETER	EACH	25.00	30.00	35.00	40.00	45.00
30 INCHES DIAMETER	EACH	30.00	35.00	40.00	45.00	50.00

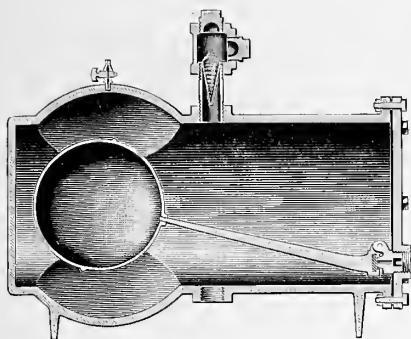


FIG. 487. PATENT IMPROVED STEAM TRAP.

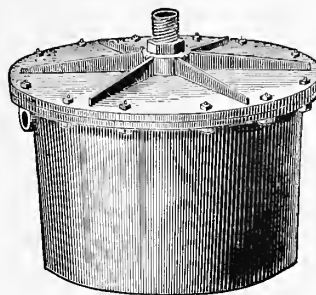


FIG. 488. STANDARD STEAM TRAP.

PATENT IMPROVED STEAM TRAPS.—Fig. 487.

NUMBER	1	2	3
DRAINAGE CAPACITY, FEET OF 1-INCH PIPE	1500	4000	10000
EACH	25.00	35.00	65.00

STANDARD STEAM TRAPS.—Fig. 488.

DIAMETER	INCHES	12	15	18
DRAINAGE CAPACITY, FEET OF 1-INCH PIPE		1500	3500	5000
EACH		23.00	36.00	54.00

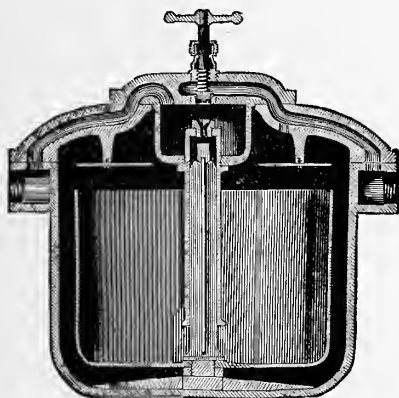


FIG. 489. NASON IMPROVED STEAM TRAP.

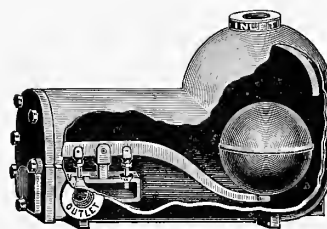


FIG. 490. DAVIS STEAM TRAP.

NASON IMPROVED STEAM TRAPS.—Fig. 489.

NUMBER	1	2	3	4	5
DRAINAGE CAPACITY, FEET OF 1-INCH PIPE	1050	2700	4200	6000	10500
GREATEST NUMBER OF SQUARE FEET TO WHICH IT SHOULD BE APPLIED	350	900	1400	2000	3500
EACH	16.00	20.00	27.50	42.50	70.00

DAVIS STEAM TRAPS.—Fig. 490.

NUMBER	000	00	0	1	2	3
DRAINAGE CAPACITY, FEET OF 1-INCH PIPE	650	1250	2500	5000	10000	20000
LENGTH OVER ALL	10	12	15	17	21	25
EACH	12.00	15.00	20.00	30.00	45.00	60.00

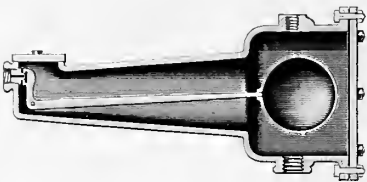


FIG. 491.

AUTOMATIC WATER FEEDERS—FOR HIGH OR LOW PRESSURE.—Fig. 491.

EACH	20.00
------	-------

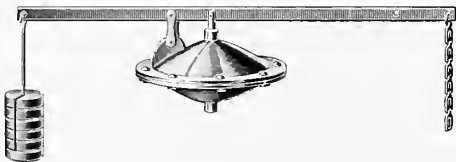


FIG. 492. LOW PRESSURE DAMPER REGULATOR.

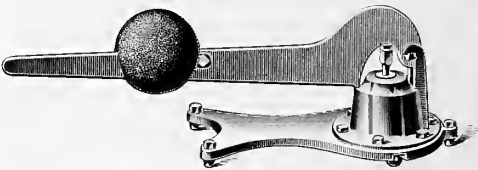


FIG. 493. CLARKE DAMPER REGULATOR.

LOW PRESSURE DAMPER REGULATORS.—Fig. 492.

EACH	10.00
------	-------

CLARKE DAMPER REGULATORS.—Fig. 493.

NUMBER	1	2	3
EACH	10.00	15.00	25.00
CAPACITY	5	20	30 to 500
HORSE - POWER			

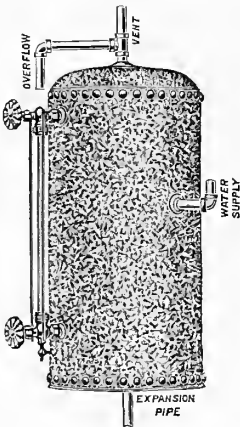


FIG. 494. EXPANSION TANK.

EXPANSION TANKS, GALVANIZED.—Fig. 494.

CAPACITY	GALLONS	10	12	15	18	20	24	26	32	42	66	82	100	120
DIAMETER	INCHES	12	12	12	12	14	14	16	16	16	18	20	22	24
HEIGHT	INCHES	20	24	30	36	30	36	30	36	48	60	60	60	60
EACH		8.00	8.50	9.00	9.50	12.50	13.00	14.00	15.00	16.50	31.00	37.00	51.00	58.00

These prices are for Tank only. See Fig. 390 for Gage.

THERMOMETERS.—Fig. 495.

EACH	4.00
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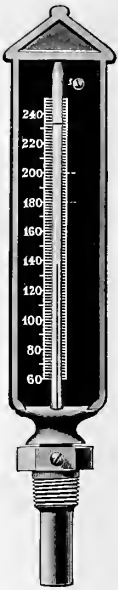


FIG. 495. THERMOMETER.
FOR HOT WATER HEATING
APPARATUS.

IRON PIPE RETURN BEND RADIATORS.

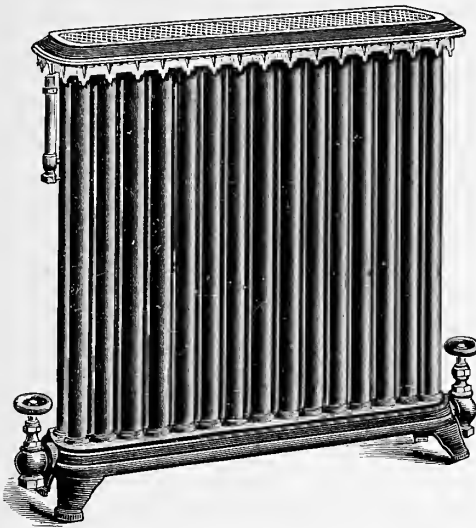


FIG. 496. RECTANGULAR RADIATOR

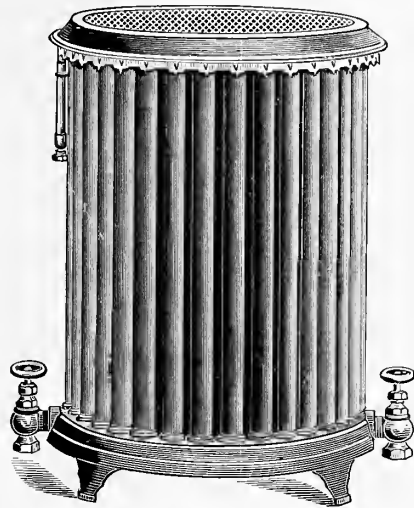


FIG. 497. CIRCULAR RADIATOR.

RECTANGULAR, ONE ROW.—Fig. 496.

WHOLE NUMBER OF TUBES AND SQUARE FEET OF SURFACE - -	4	6	8	10	12	14	16	18	20
LENGTH OF BASE - - - - - FEET, INCHES	.9	1.1	1.5	1.9	2.1	2.5	2.9	3.1	3.5
WIDTH OF BASE - - - - - INCHES	3	3	3	3	3	3	3	3	3

TWO ROWS.

NUMBER TUBES IN EACH ROW	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
WHOLE NUMBER OF TUBES AND SQUARE FEET OF SURFACE - - - - -	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76
LENGTH OF BASE - - FEET, INCHES	.9	1.1	1.5	1.9	2.1	2.5	2.9	3.1	3.5	3.9	4.1	4.5	4.9	5.1	5.5	5.9	6.1	6.5
WIDTH OF BASE - - - INCHES	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

THREE ROWS.

NUMBER TUBES IN EACH ROW	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
WHOLE NUMBER OF TUBES AND SQUARE FEET OF SURFACE - - - - -	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114
LENGTH OF BASE - FEET, INCHES	.9	1.1	1.5	1.9	2.1	2.5	2.9	3.1	3.5	3.9	4.1	4.5	4.9	5.1	5.5	5.9	6.1	6.5
WIDTH OF BASE - - - INCHES	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

FOUR ROWS.

NUMBER TUBES IN EACH ROW	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
WHOLE NUMBER OF TUBES AND SQUARE FEET OF SURFACE - - - - -	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152
LENGTH OF BASE - FEET, INCHES	.9	1.1	1.5	1.9	2.1	2.5	2.9	3.1	3.5	3.9	4.1	4.5	4.9	5.1	5.5	5.9	6.1	6.5
WIDTH OF BASE - - - INCHES	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

CIRCULAR.—Fig. 497.

WHOLE NUMBER OF TUBES AND SQUARE FEET OF SURFACE - - -	20	30	40	50	60	70	80	88
DIAMETER - - - - - FEET, INCHES	1	1.2½	1.4	1.6½	1.9	1.9	1.11½	1.11½

Radiators are tapped as follows: 54 Tubes or less, Supply 1 inch, Return $\frac{3}{4}$ inch. 56 to 104 Tubes, Supply 1½ inch, Return 1 inch. Larger sizes, Supply 1½ inch, Return 1 inch.

AMERICAN RADIATORS.

FOR STEAM AND HOT WATER.

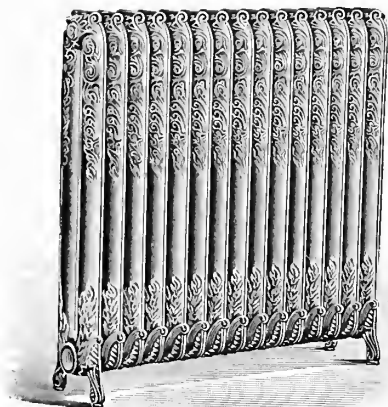


FIG. 498. PERFECTION.

Heights for steam, 45, 38, 32, 26, 23, and 20 inches.

Heights for water, 45, 38, 32, 26, and 20 inches.

Loops, $7\frac{1}{4}$ inches wide.

Width of legs, $9\frac{1}{4}$ inches.

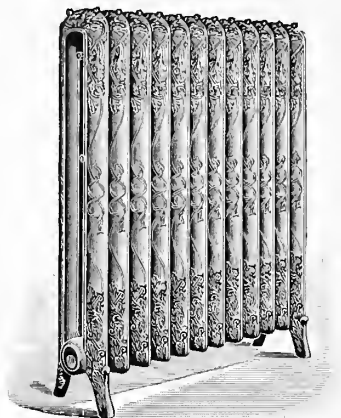


FIG. 499. NATIONAL.

Heights for steam and water, 45, 38, 32, 26, 23, and 20 inches.

Loops, $7\frac{3}{4}$ inches wide.

Width of legs, $8\frac{1}{2}$ inches.

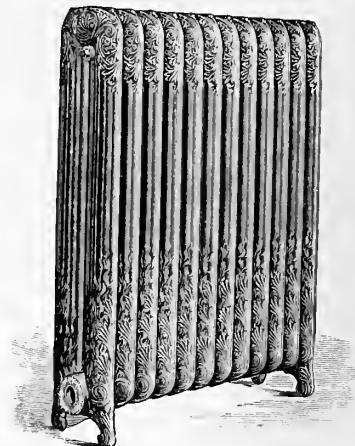


FIG. 500. DETROIT ORNAMENTAL FLUTED.

Heights for steam and water, 45, 38, 31, 25, and 20 inches.

Loops, 8 inches wide.

Width of legs, $8\frac{1}{2}$ inches.

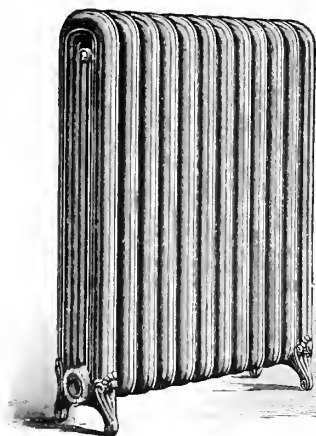


FIG. 501. DETROIT.
PLAIN FLUTED RADIATOR.

Heights for steam and water, 45, 38, 31, 25, and 20 inches.

Loops, 8 inches wide.

Width of legs, $8\frac{1}{2}$ inches.

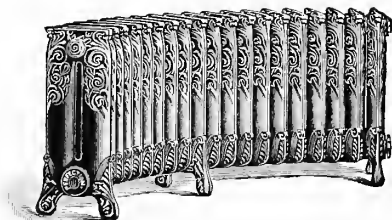


FIG. 502. PERFECTION.
SPECIAL WIDE TOP CURVED RADIATOR.

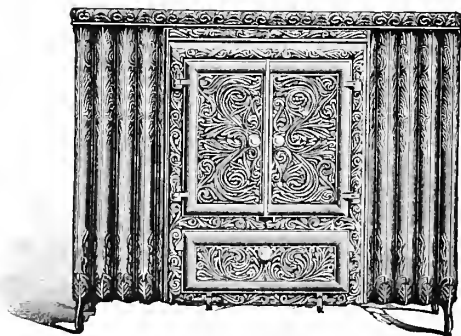


FIG. 503. PERFECTION.
DINING ROOM RADIATOR.

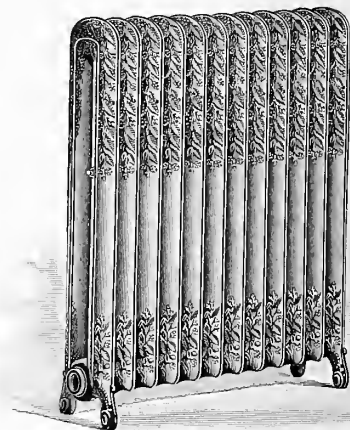


FIG. 504. IDEAL

Heights for steam and water, 45, 38, 32, 26, 23, and 20 inches.

Loops, $7\frac{3}{4}$ inches wide.

Width of legs, $8\frac{1}{2}$ inches.

For List of Sizes, see page 119.

AMERICAN RADIATORS.

LIST OF SIZES FOR NATIONAL PERFECTION AND
IDEAL RADIATORS.

No. of Sections.	Length, Inches.	HEATING SURFACE—SQUARE FEET.					
		45 in. High.	38 in. High.	32 in. High.	26 in. High.	23 in. High.	20 in. High.
2	5	10	8	6 $\frac{3}{4}$	5 $\frac{1}{2}$	4 $\frac{3}{4}$	4
3	7 $\frac{1}{2}$	15	12	10	8	7	6
4	10	20	16	13 $\frac{1}{2}$	10 $\frac{3}{4}$	9 $\frac{1}{4}$	8
5	12 $\frac{1}{2}$	25	20	16 $\frac{3}{4}$	13 $\frac{3}{4}$	11 $\frac{3}{4}$	10
6	15	30	24	20	16	14	12
7	17 $\frac{1}{2}$	35	28	23 $\frac{1}{2}$	18 $\frac{3}{4}$	16 $\frac{1}{2}$	14
8	20	40	32	26 $\frac{3}{4}$	21 $\frac{3}{4}$	18 $\frac{3}{4}$	16
9	22 $\frac{1}{2}$	45	36	30	24	21	18
10	25	50	40	33 $\frac{1}{2}$	26 $\frac{3}{4}$	23 $\frac{1}{2}$	20
11	27 $\frac{1}{2}$	55	44	36 $\frac{3}{4}$	29 $\frac{3}{4}$	25 $\frac{3}{4}$	22
12	30	60	48	40	32	28	24
13	32 $\frac{1}{2}$	65	52	43 $\frac{1}{2}$	34 $\frac{3}{4}$	30 $\frac{1}{2}$	26
14	35	70	56	46 $\frac{3}{4}$	37 $\frac{3}{4}$	32	28
15	37 $\frac{1}{2}$	75	60	50	40	35	30
16	40	80	64	53 $\frac{1}{2}$	42 $\frac{3}{4}$	37 $\frac{3}{4}$	32
17	42 $\frac{1}{2}$	85	68	56 $\frac{3}{4}$	45 $\frac{3}{4}$	39 $\frac{3}{4}$	34
18	45	90	72	60	48	42	36
19	47 $\frac{1}{2}$	95	76	63 $\frac{1}{2}$	50 $\frac{3}{4}$	44 $\frac{1}{2}$	38
20	50	100	80	66 $\frac{3}{4}$	53 $\frac{3}{4}$	46 $\frac{3}{4}$	40
21	52 $\frac{1}{2}$	105	84	70	56	49	42
22	55	110	88	73 $\frac{1}{2}$	58 $\frac{3}{4}$	51 $\frac{1}{2}$	44
23	57 $\frac{1}{2}$	115	92	76 $\frac{3}{4}$	61 $\frac{3}{4}$	53 $\frac{3}{4}$	46
24	60	120	96	80	64	56	48
25	62 $\frac{1}{2}$	125	100	83 $\frac{1}{2}$	66 $\frac{3}{4}$	58 $\frac{3}{4}$	50
26	65	130	104	86 $\frac{3}{4}$	69 $\frac{3}{4}$	60 $\frac{3}{4}$	52
27	67 $\frac{1}{2}$	135	108	90	72	63	54
28	70	140	112	93 $\frac{1}{2}$	74 $\frac{3}{4}$	65 $\frac{1}{2}$	56
29	72 $\frac{1}{2}$	145	116	96 $\frac{3}{4}$	77 $\frac{3}{4}$	67 $\frac{3}{4}$	58
30	75	150	120	100	80	70	60
31	77 $\frac{1}{2}$	155	124	103 $\frac{1}{2}$	82 $\frac{3}{4}$	72 $\frac{3}{4}$	62
32	80	160	128	106 $\frac{3}{4}$	85 $\frac{3}{4}$	74 $\frac{3}{4}$	64

LIST OF SIZES FOR DETROIT ORNAMENTAL FLUTED,
AND DETROIT PLAIN FLUTED RADIATORS.

No. of Loops.	Length, inches.	HEATING SURFACE—SQUARE FEET.					
		45 in. High. 5 $\frac{3}{4}$ Sq. Ft. per Loop.	38 in. High. 4 $\frac{1}{2}$ Sq. Ft. per Loop.	31 in. High. 3 $\frac{1}{2}$ Sq. Ft. per Loop.	25 in. High. 2 $\frac{3}{4}$ Sq. Ft. per Loop.	20 in. High. 2 $\frac{1}{4}$ Sq. Ft. per Loop.	
2	45	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	5 $\frac{1}{2}$	4 $\frac{1}{2}$	
3	64 $\frac{1}{2}$	15 $\frac{3}{4}$	13	10 $\frac{1}{2}$	8 $\frac{3}{4}$	6 $\frac{3}{4}$	
4	94	21	17 $\frac{3}{4}$	14	11	9	
5	114 $\frac{1}{2}$	26 $\frac{1}{2}$	21 $\frac{3}{4}$	17 $\frac{1}{2}$	13 $\frac{3}{4}$	11 $\frac{1}{4}$	
6	134	31 $\frac{1}{2}$	26	21	16 $\frac{1}{2}$	13 $\frac{1}{2}$	
7	163 $\frac{1}{2}$	36 $\frac{3}{4}$	30 $\frac{3}{4}$	24 $\frac{1}{2}$	19 $\frac{1}{4}$	15 $\frac{1}{4}$	
8	183	42	34 $\frac{3}{4}$	28	22	18	
9	203 $\frac{1}{2}$	47 $\frac{1}{2}$	39	31 $\frac{1}{2}$	24 $\frac{3}{4}$	20 $\frac{1}{4}$	
10	233	52 $\frac{1}{2}$	43 $\frac{1}{2}$	35	27 $\frac{1}{2}$	22 $\frac{1}{2}$	
11	254	57 $\frac{3}{4}$	47 $\frac{3}{4}$	38 $\frac{1}{2}$	30 $\frac{1}{2}$	24 $\frac{3}{4}$	
12	273 $\frac{1}{2}$	63	52	42	33	27	
13	303 $\frac{1}{2}$	68 $\frac{1}{2}$	56 $\frac{1}{2}$	45 $\frac{1}{2}$	35 $\frac{3}{4}$	29 $\frac{1}{4}$	
14	323	73 $\frac{3}{4}$	60 $\frac{3}{4}$	49	38 $\frac{1}{2}$	31 $\frac{1}{2}$	
15	344 $\frac{1}{2}$	78 $\frac{3}{4}$	65	52 $\frac{1}{2}$	41 $\frac{1}{4}$	33 $\frac{3}{4}$	
16	37	84	69 $\frac{1}{2}$	56	44	36	
17	39 $\frac{5}{16}$	89 $\frac{1}{4}$	73 $\frac{3}{4}$	59 $\frac{1}{2}$	46 $\frac{3}{4}$	38 $\frac{1}{2}$	
18	41 $\frac{5}{8}$	94 $\frac{1}{2}$	78	63	49 $\frac{1}{2}$	40 $\frac{1}{2}$	
19	43 $\frac{1}{2}$	99 $\frac{1}{4}$	82 $\frac{1}{2}$	66 $\frac{1}{2}$	52 $\frac{1}{4}$	42 $\frac{1}{4}$	
20	46 $\frac{1}{2}$	105	86 $\frac{3}{4}$	70	55	45	
21	48 $\frac{9}{16}$	110 $\frac{1}{4}$	91	73 $\frac{1}{2}$	57 $\frac{3}{4}$	47 $\frac{1}{4}$	
22	50 $\frac{1}{4}$	115 $\frac{1}{2}$	95 $\frac{1}{2}$	77	60 $\frac{1}{2}$	49 $\frac{1}{2}$	
23	53 $\frac{3}{16}$	120 $\frac{3}{4}$	99 $\frac{3}{4}$	80 $\frac{1}{2}$	63 $\frac{1}{4}$	51 $\frac{3}{4}$	
24	55 $\frac{1}{2}$	126	104	84	66	54	
25	57 $\frac{1}{4}$	131 $\frac{1}{4}$	108 $\frac{1}{2}$	87 $\frac{1}{2}$	68 $\frac{3}{4}$	56 $\frac{1}{4}$	
26	60 $\frac{1}{4}$	136 $\frac{1}{2}$	112 $\frac{3}{4}$	91	71 $\frac{1}{2}$	58 $\frac{1}{2}$	
27	62 $\frac{7}{16}$	141 $\frac{3}{4}$	117	94 $\frac{1}{2}$	74 $\frac{1}{4}$	60 $\frac{3}{4}$	
28	64 $\frac{1}{2}$	147	121 $\frac{1}{2}$	98	77	63	
29	67 $\frac{1}{16}$	152 $\frac{1}{4}$	125 $\frac{3}{4}$	101 $\frac{1}{2}$	79 $\frac{3}{4}$	65 $\frac{1}{2}$	
30	69 $\frac{3}{8}$	157 $\frac{1}{2}$	130	105	82 $\frac{1}{2}$	67 $\frac{1}{2}$	
31	71 $\frac{1}{16}$	162 $\frac{3}{4}$	134 $\frac{1}{2}$	108 $\frac{1}{2}$	85 $\frac{1}{2}$	69 $\frac{3}{4}$	
32	74	168	138 $\frac{3}{4}$	112	88	72	

RADIATORS ARE TAPPED 2 INCHES, AND BUSHED AS FOLLOWS:

ONE-PIPE WORK.

Radiators containing 24 square feet and under . . . 1 inch.
Above 24 but not exceeding 60 feet . . . 1 $\frac{1}{2}$ inch.
Above 60 but not exceeding 100 feet . . . 1 $\frac{1}{2}$ inch.
Above 100 square feet . . . 2 inch.

STEAM.

TWO-PIPE WORK.

Radiators containing 48 square feet and under . 1 x $\frac{3}{4}$ inch.
Above 48 but not exceeding 96 feet . . . 1 $\frac{1}{4}$ x 1 inch.
Above 96 square feet . . . 1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ inch.

HOT WATER.—TAPPED FOR SUPPLY AND RETURN.

Radiators containing 40 square feet and under . . . 1 inch.
Above 40 but not exceeding 72 square feet . . . 1 $\frac{1}{4}$ inch.
Above 72 square feet . . . 1 $\frac{1}{2}$ inch.

Distance from floor to center of opening is 4 $\frac{1}{2}$ inches. In estimating length of Radiators, allow $\frac{1}{2}$ inch for each bushing.

SIZES AND PRICE LIST OF PERFECTION DINING ROOM RADIATORS.

NUMBER	1	2	3	4	5	6	7
LENGTH INCHES	35	40	45	50	55	60	65
SQUARE FEET	29	37	45	53	61	69	77
EACH	48.00	53.00	58.00	63.00	68.00	73.00	78.00

AMERICAN RADIATORS

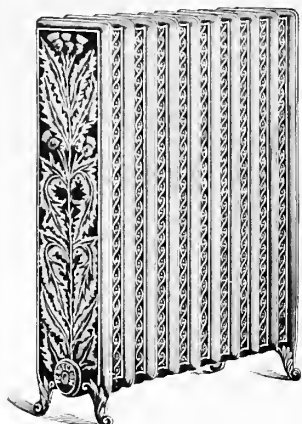


FIG. 505. PERFECTION FLUE RADIATOR.
FOR STEAM AND HOT WATER.

Heights, 38, 32, 26, 23, 16, 15, and 14 inches.
Extended surface.

LIST OF SIZES FOR PERFECTION FLUE RADIATORS.

No. of Sections.	Length, Inches.	HEATING SURFACE—SQUARE FEET.				
		38 in. High.	32 in. High.	26 in. High.	23 in. High.	16, 15 and 14 in. High.
2	6	19	16	12	10	6 $\frac{2}{3}$
3	9	28 $\frac{1}{2}$	24	18	15	10
4	12	38	32	24	20	13 $\frac{1}{3}$
5	15	47 $\frac{1}{2}$	40	30	25	16 $\frac{2}{3}$
6	18	57	48	36	30	20
7	21	66 $\frac{1}{2}$	56	42	35	23 $\frac{1}{3}$
8	24	76	64	48	40	26 $\frac{2}{3}$
9	27	85 $\frac{1}{2}$	72	54	45	30
10	30	95	80	60	50	33 $\frac{1}{3}$
11	33	104 $\frac{1}{2}$	88	66	55	36 $\frac{2}{3}$
12	36	114	96	72	60	40
13	39	123 $\frac{1}{2}$	104	78	65	43 $\frac{1}{3}$
14	42	133	112	84	70	46 $\frac{2}{3}$
15	45	142 $\frac{1}{2}$	120	90	75	50
16	48	152	128	96	80	53 $\frac{1}{3}$
17	51	161 $\frac{1}{2}$	136	102	85	56 $\frac{2}{3}$
18	54	171	144	108	90	60
19	57	180 $\frac{1}{2}$	152	114	95	63 $\frac{1}{3}$
20	60	190	160	120	100	66 $\frac{2}{3}$

Each section is 10 $\frac{1}{4}$ inches wide. Width of legs, 11 $\frac{2}{3}$ inches.

The flow and return openings are tapped 2 inches, and bushed according to list on page 119, unless otherwise ordered.

LIST OF SIZES FOR DETROIT FLUE RADIATORS.

No. of Sections.	Length, Inches.	HEATING SURFACE—SQUARE FEET.				
		30 in. High.	18 in. High.	16 in. High.	14 in. High.	13 in. High.
2	6	12	10 $\frac{2}{3}$	9 $\frac{1}{3}$	8	7 $\frac{1}{3}$
3	9	18	16	14	12	11
4	12	24	21 $\frac{1}{3}$	18 $\frac{2}{3}$	16	14 $\frac{2}{3}$
5	15	30	26 $\frac{2}{3}$	23 $\frac{1}{3}$	20	18 $\frac{1}{3}$
6	18	36	32	28	24	22
7	21	42	37 $\frac{1}{3}$	32 $\frac{2}{3}$	28	25 $\frac{2}{3}$
8	24	48	42 $\frac{2}{3}$	37 $\frac{1}{3}$	32	29 $\frac{1}{3}$
9	27	54	48	42	36	33
10	30	60	53 $\frac{1}{3}$	46 $\frac{2}{3}$	40	36 $\frac{2}{3}$
11	33	66	58 $\frac{2}{3}$	51 $\frac{1}{3}$	44	40 $\frac{1}{3}$
12	36	72	64	56	48	44
13	39	78	69 $\frac{1}{3}$	60 $\frac{2}{3}$	52	47 $\frac{2}{3}$
14	42	84	74 $\frac{2}{3}$	65 $\frac{1}{3}$	56	51 $\frac{1}{3}$
15	45	90	80	70	60	55
16	48	96	85 $\frac{1}{3}$	74 $\frac{2}{3}$	64	58 $\frac{2}{3}$
17	51	102	90 $\frac{2}{3}$	79 $\frac{1}{3}$	68	62 $\frac{1}{3}$
18	54	108	96	84	72	66
19	57	114	101 $\frac{1}{3}$	88 $\frac{2}{3}$	76	69 $\frac{2}{3}$
20	60	120	106 $\frac{2}{3}$	93 $\frac{1}{3}$	80	73 $\frac{1}{3}$

Each section is 12 $\frac{1}{2}$ inches wide. Distance from center of tapping to floor is 3 inches.

For Tappings, see page 119.

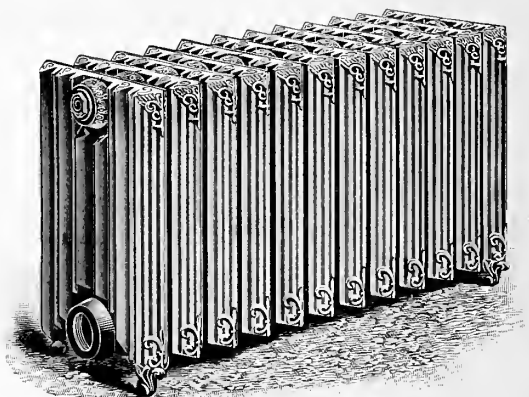


FIG. 506. DETROIT FLUE.
FOR HOT WATER OR STEAM.

PERFECTION PIN INDIRECT RADIATORS.

FOR STEAM OR HOT WATER.



FIG. 507. STANDARD.

10 square feet surface. Length, 36 inches.

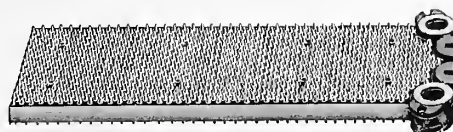
Width, $7\frac{1}{2}$ inches.Width at connecting point, $11\frac{1}{2}$ inches.

FIG. 508. EXTRA LARGE.

15 square feet surface. Length, 36 inches.

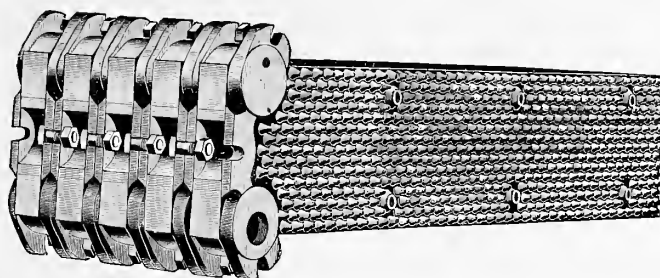
Width, $11\frac{1}{2}$ inches.Width at connecting point, $15\frac{1}{2}$ inches.

FIG. 509. COMPLETE STACK.

Width occupied in Stack, Standard Size, $2\frac{3}{4}$ inches; Extra Large, $2\frac{1}{2}$ inches.**EXCELSIOR INDIRECT RADIATORS.**

MADE FOR STEAM AND HOT WATER.

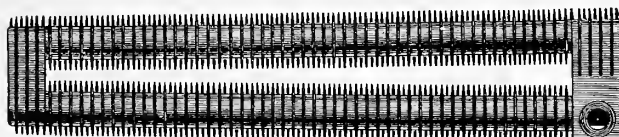


FIG. 510. SINGLE SECTION.

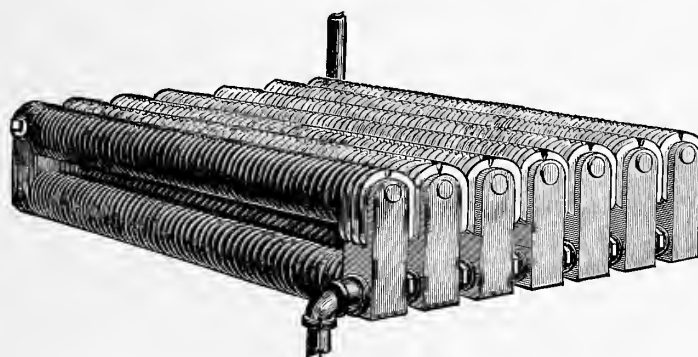


FIG. 511. COMPLETE STACK EXCELSIOR INDIRECT WATER RADIATOR.

Length of Section, 3 feet. Height, $7\frac{1}{2}$ inches. Width occupied in Stack, $3\frac{1}{4}$ inches.

Each section contains 12 square feet of radiating surface in both Steam and Hot Water.

Prices on application.

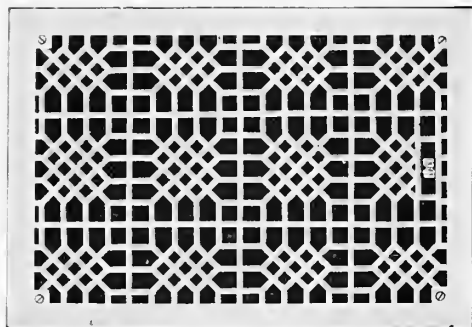


FIG. 512.

REGISTERS.— Fig. 512.

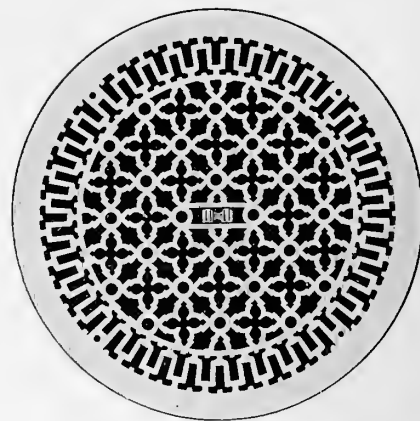


FIG. 513. CIRCULAR.

Size of Opening.	Black or White Japan.	Electro Plated, Nickel, Brass, Bronze, or Copper.	Extreme Dimensions of Face.	Face, Black or White Japan.	Face, Electro Plated, Nickel, Brass, Bronze, or Copper.	Size of Opening.	Black or White Japan.	Electro Plated, Nickel, Brass, Bronze, or Copper.	Extreme Dimensions of Face.	Face, Black or White Japan.	Face, Electro Plated, Nickel, Brass, Bronze, or Copper.
Inches.	Each.	Each.	Inches.	Each.	Each.	Inches.	Each.	Each.	Inches.	Each.	Each.
6 x 8	1.90	3.75	7 1/8 x 9 1/8	.65	2.50	12 x 11	6.75	9.45	14 1/8 x 19	2.80	5.50
6 x 10	2.10	4.10	7 1/8 x 11 1/8	.70	2.70	12 x 18	7.00	9.95	14 1/8 x 20	3.00	5.90
8 x 8	2.25	4.50	9 3/8 x 9 3/8	.80	3.05	12 x 19	7.50	10.20	14 1/8 x 21 1/8	3.20	5.95
8 x 10	2.50	4.85	9 3/8 x 11 3/8	.85	3.20	12 x 20	8.00	10.80	14 1/8 x 22	3.40	6.20
8 x 12	2.80	5.20	9 3/8 x 13 3/8	1.00	3.40	12 x 24	9.75	13.05	14 1/8 x 26	3.90	7.20
8 x 15	3.60	6.15	9 3/8 x 16 1/8	1.50	4.05	14 x 14	7.50	10.50	16 3/8 x 16 3/8	3.15	6.15
9 x 9	2.65	5.00	10 1/8 x 10 1/8	1.00	3.35	14 x 16	8.00	12.00	16 3/8 x 18 5/8	3.30	7.30
9 x 12	3.30	5.70	10 1/8 x 13 1/8	1.25	3.65	14 x 18	8.75	14.00	16 3/8 x 20 5/8	3.50	8.75
9 x 13	3.45	5.95	11 1/8 x 15 1/8	1.35	3.85	14 x 20	9.50	15.30	16 3/8 x 22 5/8	3.70	9.50
9 x 14	3.60	6.20	10 1/8 x 15 1/8	1.50	4.10	14 x 22	10.00	16.45	16 3/8 x 23 5/8	3.90	10.35
10 x 10	3.25	5.65	11 1/8 x 11 1/8	1.20	3.60	16 x 16	9.25	14.60	18 3/8 x 18 3/8	3.90	9.25
10 x 12	3.60	6.15	11 1/8 x 13 1/8	1.50	4.05	16 x 20	10.50	16.25	18 3/8 x 22 5/8	4.95	10.70
10 x 14	4.25	6.85	12 1/8 x 16	1.85	4.45	16 x 24	13.00	21.25	18 3/8 x 26 5/8	6.00	14.25
10 x 16	4.75	7.45	11 1/8 x 17 1/8	2.15	4.85	18 x 24	17.60	-----	20 5/8 x 26 5/8	8.05	-----
10 x 18	6.50	8.65	11 1/8 x 20	2.45	5.10	20 x 20	13.50	23.00	22 1/8 x 22 1/8	6.50	16.00
10 x 20	6.75	9.45	11 1/8 x 21 1/8	2.80	5.50	20 x 24	15.00	26.40	22 1/8 x 26 1/8	7.00	18.40
12 x 12	5.00	7.55	14 1/8 x 14 1/8	2.10	4.65	20 x 26	17.00	30.50	22 1/8 x 28 1/8	7.50	21.00
12 x 14	5.75	8.40	14 1/8 x 16 1/8	2.30	4.95	21 x 29	20.00	33.00	23 3/8 x 31 1/8	8.20	21.20
12 x 15	6.00	8.65	13 3/8 x 16 3/8	2.40	5.05	27 x 27	25.00	49.50	29 1/8 x 29 1/8	10.70	-----
12 x 16	6.50	9.20	14 1/8 x 18	2.60	5.30						

CIRCULAR REGISTERS.— Fig. 513.

SIZE OF OPENING	INCHES	6	7	8	9	10	12	14	16	18	20	24	30
BLACK OR WHITE JAPAN	EACH	1.35	1.50	1.85	2.25	2.75	3.60	5.40	7.00	9.25	11.50	20.75	34.05
ELECTRO PLATED, NICKEL, BRASS, BRONZE, OR COPPER, EACH		3.30	3.50	3.85	4.60	5.15	6.25	8.15	10.00	12.35	17.00	26.15	-----
EXTREME DIMENSIONS OF FACE		7 1/8	8 3/8	9 3/8	10 3/8	11 1/8	13 3/8	15 3/8	17 3/8	19 3/8	21 3/8	26 1/8	32
FACE BLACK OR WHITE JAPAN	EACH	.50	.60	.65	.85	1.00	1.50	2.00	2.70	3.45	4.15	10.00	19.35
FACE ELECTRO PLATED, NICKEL, BRASS, BRONZE, OR COPPER		2.45	2.60	2.65	3.20	3.40	4.15	4.75	5.70	6.55	9.65	15.40	-----



FIG. 514. OPEN.

PERFECTION SASH VENTILATOR.

TO BE PLACED IN THE SASH RAIL INSIDE OF ROOM.



FIG. 515. CLOSED.

SIZE	INCHES	1 1/2 x 9	1 1/2 x 12	2 x 9	2 x 12
BRONZED	EACH	1.50	2.00	2.00	2.25
PLATED	EACH	3.25	4.00	4.00	5.00
BRONZED METAL	EACH	3.50	4.25	4.25	5.25

Price includes Plate for finish on outside of Sash.

BRASS GAS FIXTURE FITTINGS.



FIG. 516. TWO-LIGHT PENDANT COCK.

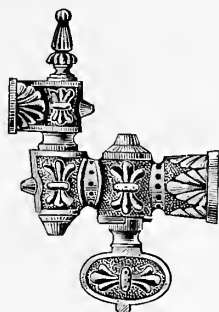


FIG. 517. BRACKET COCK.

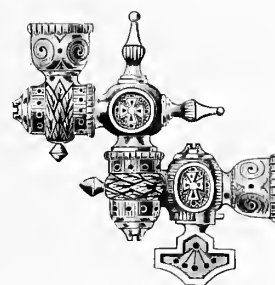


FIG. 518. UNIVERSAL BRACKET COCK.

SIZE	INCHES	$\frac{3}{8} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{2}$	$\frac{1}{4} \times \frac{1}{2}$
FIG. 516	PER DOZEN	---	9.10	9.10	8.45
FIG. 517	PER DOZEN	9.10	8.45	8.15	---
FIG. 518	PER DOZEN	13.00	12.35	12.05	---

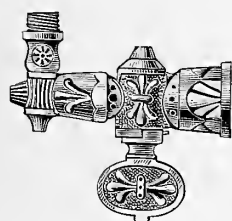


FIG. 519. ELBOW BURNER COCK.

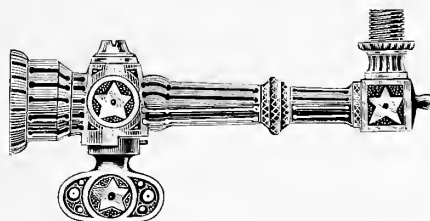


FIG. 520. ELBOW BURNER COCK, 4 INCHES LONG.

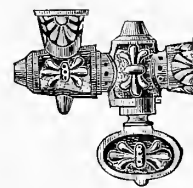


FIG. 521. ELBOW PENDANT COCK.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	
FIG. 519	PER DOZEN	6.20	5.25	4.55	4.25	---
FIG. 520	PER DOZEN	---	7.80	7.80	---	---

SIZE	INCHES	$\frac{3}{8} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{2}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4} \times \frac{1}{2}$
FIG. 521	PER DOZEN	5.85	5.20	5.20	5.20	4.90

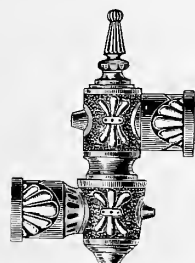


FIG. 522. MIDDLE SWING.

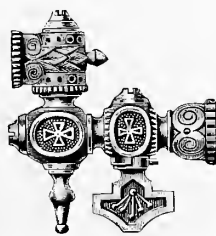


FIG. 523. UNIVERSAL PENDANT COCK.

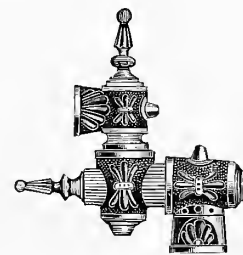
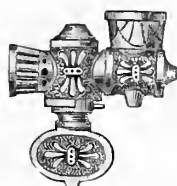
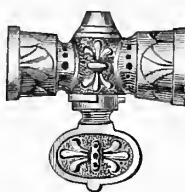


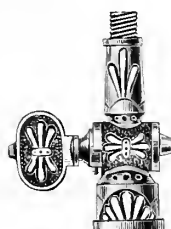
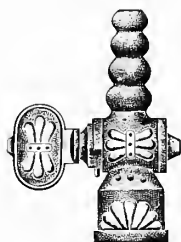
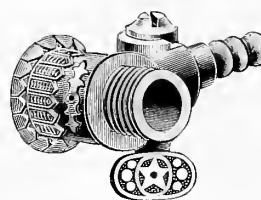
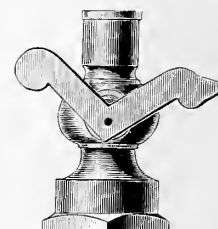
FIG. 524. UNIVERSAL SWING.

SIZE	INCHES	$\frac{3}{8} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{2}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4} \times \frac{1}{2}$	$\frac{1}{2} \times \frac{1}{2}$
FIG. 522	PER DOZEN	---	---	---	4.90	4.55	4.25
FIG. 523	PER DOZEN	10.20	9.75	9.45	9.10	8.80	---
FIG. 524	PER DOZEN	9.10	8.80	---	8.45	8.15	7.80

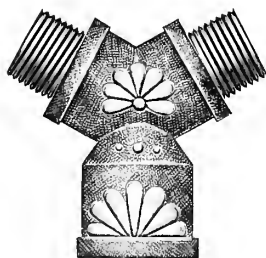
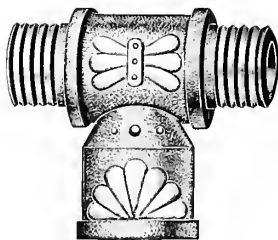
BRASS GAS FIXTURE FITTINGS.

FIG. 525.
ELBOW PENDANT COCK.FIG. 526.
STRAIGHT COCK.FIG. 527.
TOP SWING.FIG. 528.
STIFF JOINT.

SIZE	INCHES	$\frac{1}{2} \times \frac{1}{2}$	$\frac{1}{2} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$
FIG. 525	PER DOZEN	----	----	----	5.85	5.20	5.20	5.20	4.90	----
FIG. 526	PER DOZEN	----	----	----	4.90	4.55	4.55	4.55	4.25	3.90
FIG. 527	PER DOZEN	----	----	----	6.20	5.55	5.20	----	----	----
FIG. 528	PER DOZEN	3.25	2.60	2.60	1.95	1.85	1.55	----	----	----

FIG. 529.
PILLAR COCK.FIG. 530.
HOSE COCK.FIG. 531.
INDEPENDENT COCK.FIG. 532.
FINISHED LAMP-POST COCK.

SIZE	INCHES	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
FIG. 529	PER DOZEN	----	6.50	5.20	4.55	4.25	3.90
FIG. 530	PER DOZEN	----	----	----	4.90	4.55	4.25
FIG. 531	PER DOZEN	----	----	----	6.50	6.00	5.50
FIG. 532	PER DOZEN	----	6.50	5.85	5.55	----	----

FIG. 533.
TWO-LIGHT BRACKET BODY.FIG. 534.
TWO-LIGHT PILLAR BODY.FIG. 535.
STRAIGHT NOZZLE.FIG. 536.
SIDE NOZZLE.FIG. 537.
CONNECTING BALL.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
FIG. 533	PER DOZEN	3.90	----	----
FIG. 534	PER DOZEN	5.20	----	----
FIG. 535	PER DOZEN	1.95	1.65	1.00
FIG. 536	PER DOZEN	2.30	1.65	1.00
FIG. 537	PER DOZEN	1.50	----	----

BRASS GAS FIXTURE FITTINGS. **EXTRA HEAVY.**

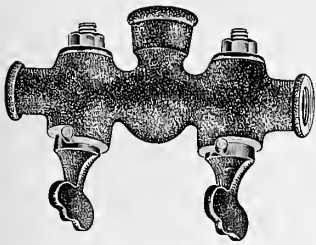


FIG. 538.
DOUBLE PENDANT COCK.

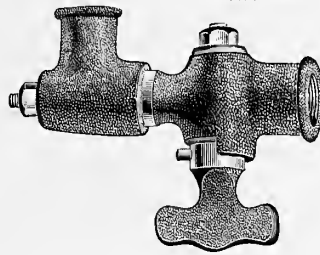


FIG. 539.
SWING PENDANT COCK.

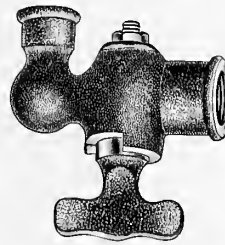


FIG. 540.
FEMALE PENDANT COCK.

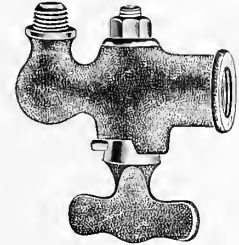


FIG. 541.
MALE AND FEMALE PENDANT COCK.

SIZE	INCHES	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{2}$
FIG. 538	EACH	1.20	----	1.20	1.20
FIG. 539	EACH	1.00	----	1.00	1.00
FIG. 540	EACH	.80	.80	.80	.80
FIG. 541	EACH	.80	----	.80	----

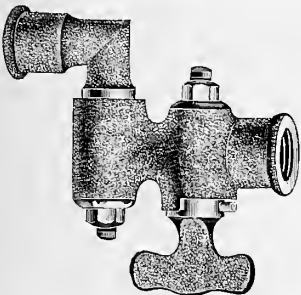


FIG. 542. BRACKET BACK, SWING JOINT.

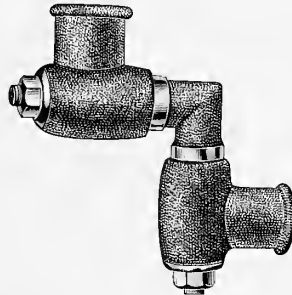


FIG. 543. DOUBLE SWING.

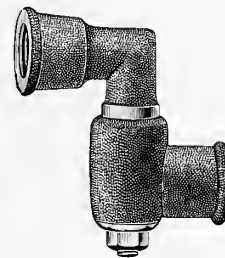


FIG. 544. SINGLE SWING.

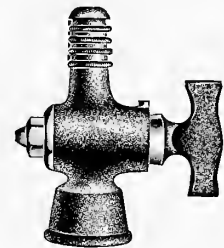


FIG. 545. HOSE COCK.

SIZE	INCHES	$\frac{1}{2} \times \frac{1}{2}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
FIG. 542	EACH	----	1.00	1.00	1.00	1.00	----
FIG. 543	EACH	----	.80	.80	----	.80	.80
FIG. 544	EACH	.65	.65	.65	.65	.65	.65
FIG. 545	EACH	----	----	.80	----	.80	----

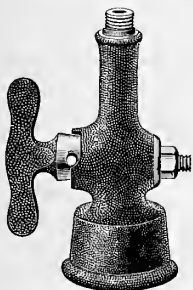


FIG. 546. MALE LAMP-POST COCK.

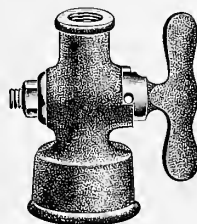


FIG. 547. FEMALE LAMP-POST COCK.

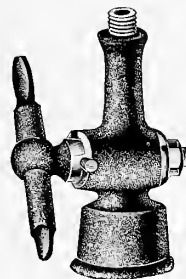


FIG. 548. LAMP-POST COCK,
CHICAGO PATTERN.



FIG. 549. ALCOHOL COCK,
WITH CUP.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 546	EACH	.80	.85	.90	1.00	1.15
FIG. 547	EACH	.80	.85	.90	1.00	1.15
FIG. 548	EACH	1.00	1.05	1.15	1.25	1.40
FIG. 549	EACH	----	.90	----	----	----

STANDARD STAPLE GAS BRACKETS.

FINISHED IN FRENCH BRONZE OR GILT.

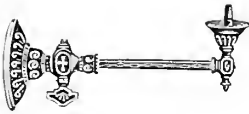


FIG. 550.



FIG. 551.



FIG. 552.

FIG. 550. STRAIGHT BRACKET, STIFF	EACH	.45
FIG. 551. CURVE BRACKET, STIFF	EACH	.45
FIG. 552. SINGLE SWING BRACKET	EACH	.50

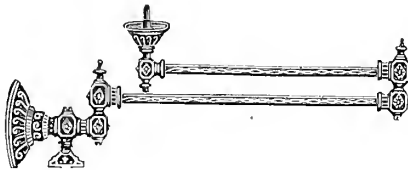


FIG. 553

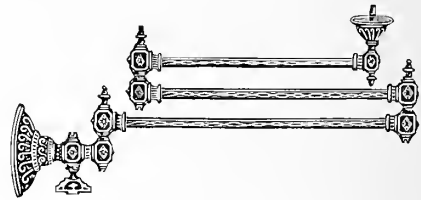


FIG. 554.

FIG. 553. DOUBLE SWING BRACKET	EACH	.80
FIG. 554. TRIPLE SWING BRACKET	EACH	1.15

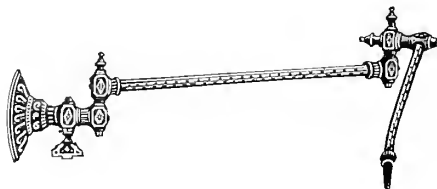


FIG. 555.

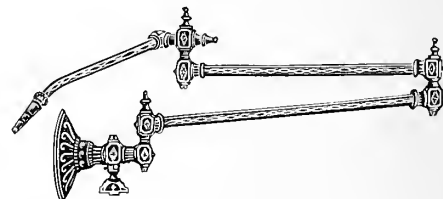


FIG. 556.

FIG. 555. DOUBLE SWING UNIVERSAL BRACKET	EACH	1.15
FIG. 556. TRIPLE SWING UNIVERSAL BRACKET	EACH	1.40

Above prices include Cup, Back Pillar, and Tip.

GAS BRACKETS, WITH SQUARE FITTINGS.

POLISHED BRASS.



FIG. 557. STIFF CURVED BRACKET.

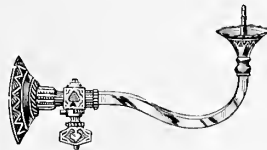


FIG. 558. STIFF CURVED BRACKET.



FIG. 559. STIFF RING BRACKET.

POLISHED CURVED BRACKETS, SQUARE OR ROPE TUBE.

FIGS. 557 AND 558. STIFF CURVED BRACKETS	EACH	.95
FIG. 559. STIFF RING BRACKETS	EACH	1.50

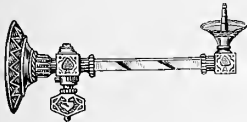


FIG. 560. STRAIGHT STIFF BRACKET.

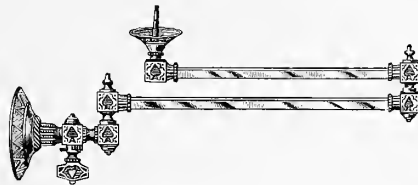


FIG. 561. DOUBLE SWING BRACKET.

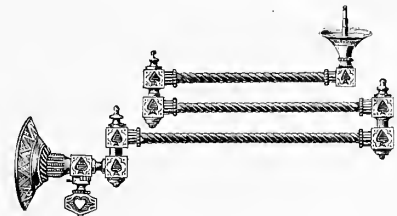


FIG. 562. TRIPLE SWING BRACKET.

POLISHED BRACKETS, SQUARE OR ROPE TUBE.

STRAIGHT BRACKET, STIFF	EACH	.55
SINGLE SWING BRACKET	EACH	.90
DOUBLE SWING BRACKET	EACH	1.25
TRIPLE SWING BRACKET	EACH	1.65

Above pieces include Cup, Back, Pillar, and Tip.

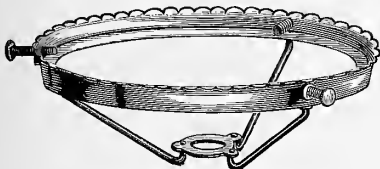


FIG. 563. GLOBE HOLDER.



FIG. 564. BRACKET BACK.



FIG. 565. BURNER CUP.

GLOBE HOLDERS.—Fig. 563.

SIZE	INCHES	4	5
PER DOZEN		1.25	2.50

BRACKET BACKS.—Fig. 564.

SIZE	INCHES	2½	3
PER DOZEN		.50	.60

BURNER CUPS.—Fig. 565.

PER DOZEN		.20
-----------	--	-----

FIG. 566.
BAT WING.
IRON.FIG. 567.
BILLIARD BURNER.
IRON.FIG. 568.
FISH TAIL.
IRON.FIG. 569.
WATER GAS BURNER.
IRON.FIG. 570.
BRAY BURNER.
UNION JET.
BRASS.FIG. 571.
BRAY BURNER.
SLIT UNION.
BRASS.FIG. 572.
AMERICAN.
BRAY BURNER.
BRASS.**IRON AND BRASS BURNERS.**

FIGURE	566	567	568	569	570	571	572
PER DOZEN	.60	1.00	.60	1.00	1.50	1.50	.80

In ordering Bray Burners, state whether wanted for high or low pressure.

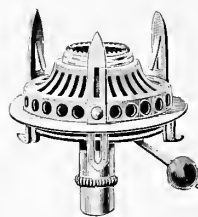
FIG. 573.
EMPIRE.FIG. 574.
EMPIRE BASE.FIG. 575.
ARGAND.FIG. 576.
PILLAR FOR LAVA TIP.FIG. 577.
BASE FOR LAVA TIP.FIG. 578.
CLOUGH
GASOLINE BURNER.**BURNERS AND PILLARS.**

FIGURE	573	574	575	576	577	578
PER DOZEN	1.00	.50	7.00	.20	.50	5.00

In ordering Clough Burners, state whether wanted with Iron or Lava Tip.

FIG. 579.
STANDARD.FIG. 580.
BAT WING.FIG. 581.
FISH TAIL.FIG. 582.
WATER GAS.FIG. 583.
STANDARD.FIG. 584.
BAT WING.FIG. 585.
FISH TAIL.FIG. 586.
WATER GAS.**LAVA TIPS.**

FIGURE	579	580	581	582
PER GROSS	1.50	1.50	1.50	1.50

IRON TIPS.

FIGURE	583	584	585	586
PER GROSS	1.50	2.50	2.50	8.00



FIG. 587. SELF-LIGHTING BURNER.



FIG. 588. TAPER, SLIDE, AND KEY.



FIG. 589. CIGAR LIGHTER.

FIGURE	587	588	589
PER DOZEN	9.00	8.00	36.00
WAX TAPERS	PER POUND	.60	-----

Cigar Lighters are complete with 2 feet fancy colored gas-tight tubing, goose-neck, brass pillar, etc. Handles are of glass in colors, ruby, amber, blue, opal, or clear.

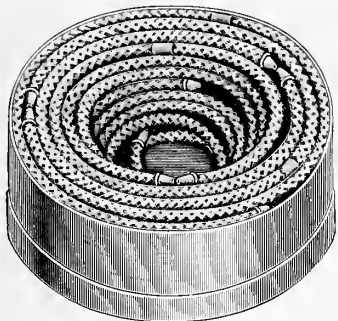


FIG. 590. MOHAIR TUBING.

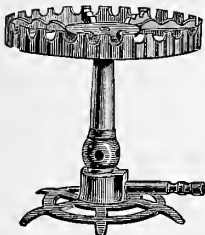
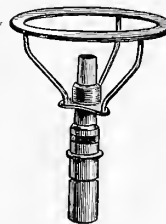


FIG. 591. WIRE GUARD.

MOHAIR TUBING AND WIRE GUARDS.

FIG. 590. MOHAIR TUBING	PER FOOT	.16
ELEVATOR TUBING	PER FOOT	.40
FIG. 591. WIRE GUARDS	PER DOZEN	7.00

Mohair Tubing can be furnished in any length from 2 feet up. Box contains 96 feet.

FIG. 592.
MONITOR GAS STOVE.FIG. 593.
MONITOR HEATING BURNER.
WITH BRASS STEM.FIG. 594.
BRASS ATMOSPHERIC HEATER.FIG. 595.
MONITOR HEATING STAND.

MONITOR GAS STOVES, BURNERS, HEATERS, AND STANDS.—Figs. 592 to 595.

FIGURE	592	592	592	593	594	595	595	595
DIAMETER	4 3/4	6 1/2	7 1/2	-----	-----	Small	Medium	Large
EACH	1.20	1.50	2.00	.40	.35	.35	.60	.85

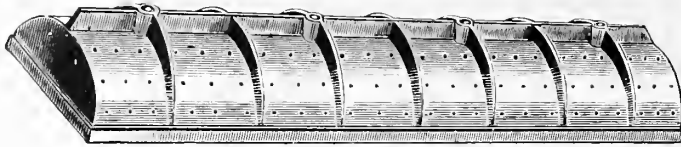


FIG. 596. "SPRAY" BURNER.



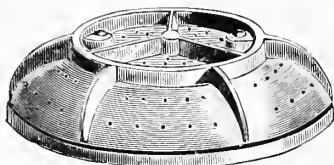
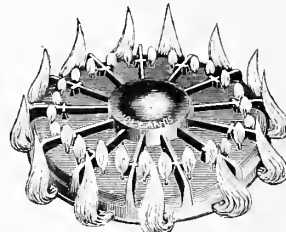
FIG. 597. HOLLAND'S ONE-PIECE RECTANGULAR BURNER.

"SPRAY" BURNERS—FOR STOVES, GRATES, AND FIRE-PLACES.—Fig. 596.

LENGTH	INCHES	10	12	14	16	18	20	10	12	14	16	18	20
WIDTH	INCHES	3½	3½	3½	3½	3½	3½	4½	4½	4½	4½	4½	4½
EACH		.65	.75	.90	1.10	1.25	1.40	.75	.90	1.15	1.35	1.55	1.75

HOLLAND'S RECTANGULAR BURNERS.—Fig. 597.

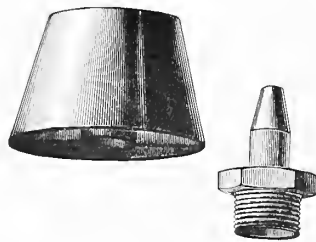
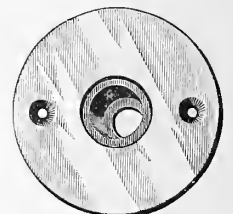
LENGTH	INCHES	10	12	14	16	18	20	22
WIDTH	INCHES	4	4	4	4	4	4	6
EACH		1.10	1.25	1.50	1.75	2.00	2.25	3.00

FIG. 598.
"SPRAY" ROUND BURNERFIG. 599.
HOLLAND'S ONE-PIECE ROUND BURNER.FIG. 600.
ECONOMIC TOP-PLATE BURNER.**"SPRAY," HOLLAND, AND ECONOMIC ROUND BURNERS.—Figs. 598, 599, and 600.**

DIAMETER	INCHES	4	6	7	8	10	12	15	18
FIG. 598. "SPRAY"	EACH	.75	.75	1.00	1.00	1.40	1.80	3.00	4.00
FIG. 599. HOLLAND	EACH	.60	.75	1.00	1.25	1.50	2.00	3.00	4.00
FIG. 600. ECONOMIC	EACH	.75	.75	1.00	1.25	1.50	2.00	3.00	4.00



FIG. 601. SOLID PIN.

FIG. 602. LOOSE PIN.
KITTANNING MIXING CHAMBERS.FIG. 603. KEY FOR VALVES,
WITH ¼-INCH SQUARE STEM.FIG. 604.
COUNTERSUNK FLOOR-PLATE.**KITTANNING MIXING CHAMBERS.**

SIZE	INCHES	1 x ¾	1 x ½	1½ x ½	1½ x ¼
SOLID PIN	EACH	.30	.30	.60	.65
LOOSE PIN	EACH	.35	.35		

KEYS AND FLOOR-PLATES, NICKEL-PLATED.

LENGTH, KEYS	INCHES	3	6	9	12	15	16
KEYS	EACH	.40	.60	.85	1.10	1.45	1.75
FLOOR-PLATES	EACH	.35					

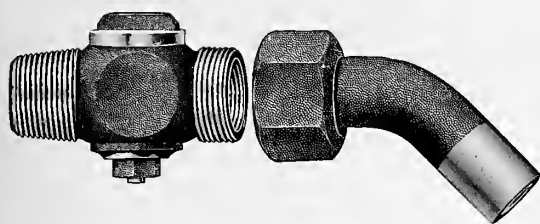
CORPORATION STOP-COCKS.

FIG. 605. BENT COUPLING, SCREW PLUG.

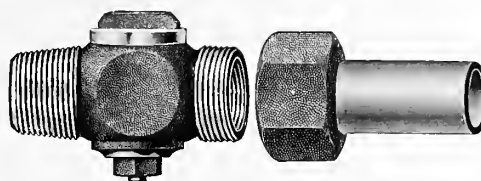


FIG. 606. STRAIGHT COUPLING, SCREW PLUG.

CORPORATION COCKS. Screwed for Mueller Tapping Machine.—Figs. 605 and 606.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 605	EACH	1.20	1.35	1.70	2.50	3.85
FIG. 606	EACH	1.20	1.35	1.70	2.50	3.85

Fig. 605 is considered the standard, and is always furnished unless other style is ordered.

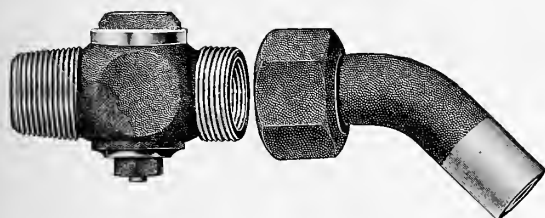


FIG. 607. BENT COUPLING, I. P. THREAD ON LONG END.

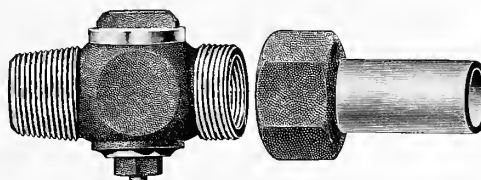


FIG. 608. STRAIGHT COUPLING, I. P. THREAD ON LONG END.

CORPORATION COCKS. Iron Pipe Thread on Long End.—Figs. 607 and 608.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 607	EACH	1.30	1.55	1.90	2.80	4.40
FIG. 608	EACH	1.30	1.55	1.90	2.80	4.40

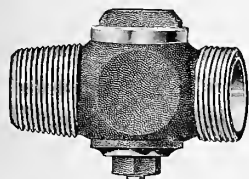


FIG. 609. THREADED FOR IRON PIPE ON BOTH ENDS.

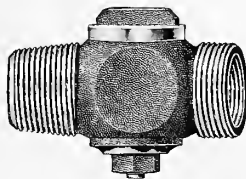


FIG. 610. THREADED FOR IRON PIPE ON SHORT END, FITTED FOR SCREW PLUG.

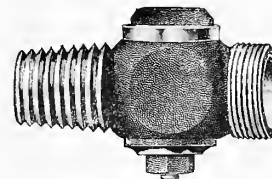


FIG. 611. THREADED FOR IRON PIPE ON SHORT END, COARSE THREAD ON LONG END, FOR WOOD MAIN.

CORPORATION COCKS. For Iron Pipe and Wood Main.—Figs. 609, 610, and 611.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 609	EACH	1.05	1.30	1.65	2.40	3.80
FIG. 610	EACH	---	1.10	1.40	2.10	3.35
FIG. 611	EACH	---	1.50	1.90	2.70	4.10

CORPORATION STOP-COCKS.

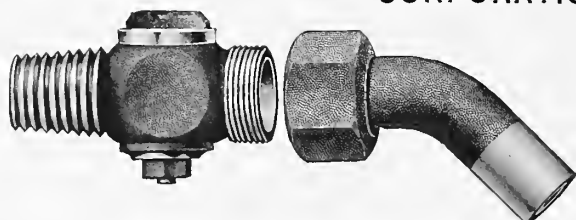


FIG. 612. BENT COUPLING, COARSE THREAD ON LONG END, FOR WOOD PIPE.

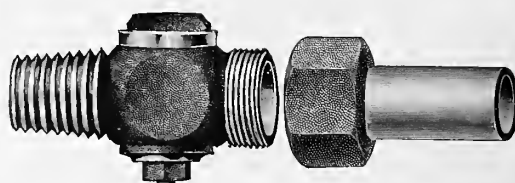


FIG. 613. STRAIGHT COUPLING, COARSE THREAD ON LONG END, FOR WOOD PIPE.

CORPORATION COCKS, FOR WOOD PIPE.—Figs. 612 and 613.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 612	EACH		1.65	2.00	3.00	4.70
FIG. 613	EACH		1.65	2.00	3.00	4.70

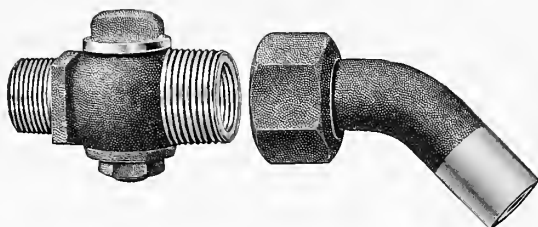


FIG. 614. BENT COUPLING FOR PAYNE MACHINE.

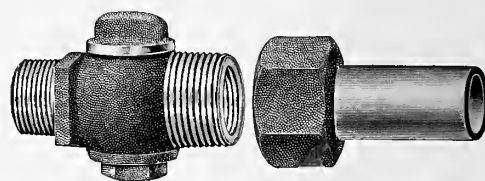


FIG. 615. STRAIGHT COUPLING FOR PAYNE MACHINE.

CORPORATION COCKS, FOR PAYNE TAPPING MACHINE.—Figs. 614 and 615.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 614	EACH	1.20	1.35	1.70	2.50	3.85	8.00	10.67	18.34
FIG. 615	EACH	1.20	1.35	1.70	2.50	3.85	8.00	10.67	18.34
IRON PIPE BOTH ENDS, WITHOUT COUPLING	EACH	1.00	1.10	1.40	2.10	3.35	6.75	8.35	15.00

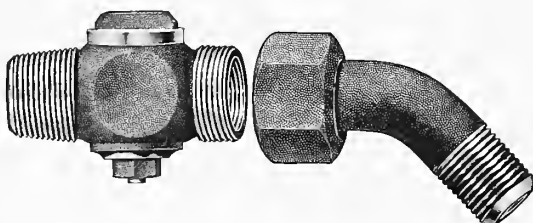


FIG. 617. BENT COUPLING, FOR "CLOW" PATENT LEAD PIPE CONNECTION, AND MUELLER MACHINE, SCREW PLUG.

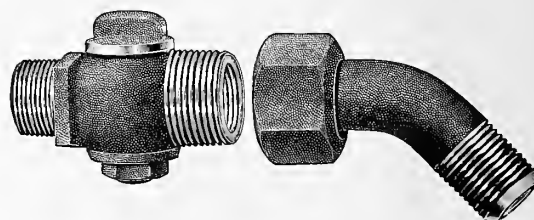


FIG. 618. BENT COUPLING, FOR "CLOW" LEAD PIPE CONNECTION, PAYNE MACHINE.

CORPORATION COCKS, FOR "CLOW" CONNECTION.—Figs. 617 and 618.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 617. FOR MUELLER MACHINE		1.40	1.55	1.90	2.70	4.05
FIG. 618. FOR PAYNE MACHINE			1.30	1.65	2.40	2.80

CLOW PATENT LEAD PIPE CONNECTION.

SHOWING CORPORATION COCK AND ROUND-WAY STOP, WITH LEAD PIPE CONNECTED.

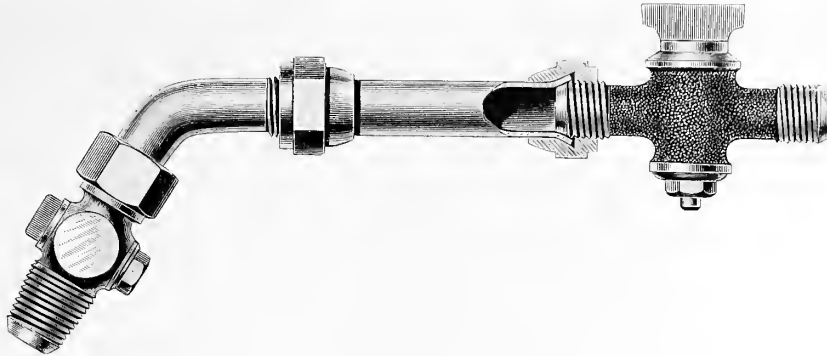


FIG. 619.

We guarantee a joint made with this Connection is stronger and more durable than the regular solder joint, and much cheaper. Any one capable of tapping a main can make a perfect joint with this Connection in a few minutes, and in any place where lead and iron pipe are to be connected it will be found more satisfactory and cheaper than the solder joint.

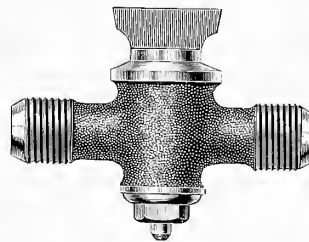


FIG. 620.

TEE HANDLE ROUND-WAY STOPS.—Fig. 620.

IRON PIPE BOTH ENDS, FOR CLOW PATENT LEAD PIPE CONNECTIONS.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
PER DOZEN		19.00	23.00	48.00



FIG. 621.



FIG. 622.

CLOW PATENT LEAD PIPE CONNECTIONS.—Figs. 621 and 622.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
EACH		.15	.20	.35

Steel Expander for spreading pipe in connection, each, 65 cents.

ROUGH ROUND-WAY STOPS.

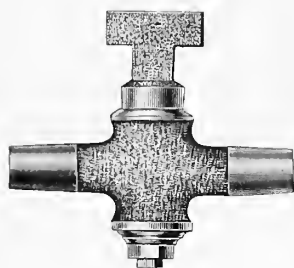


FIG. 623.
TEE HANDLE, FOR LEAD PIPE.

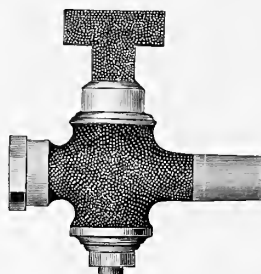


FIG. 624.
TEE HANDLE, FOR LEAD AND IRON PIPE.

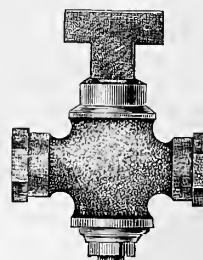


FIG. 625.
TEE HANDLE, FOR IRON PIPE.

TEE HANDLE ROUND-WAY STOPS.—Figs. 623, 624, and 625.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 623. PLAIN	PER DOZEN	17.00	20.00	25.00	44.00	70.00	100.00	180.00
FIG. 623. WITH CHECK AND WASTE	PER DOZEN	18.00	21.00	26.50	46.00	73.00	104.00	190.00
FIG. 624. PLAIN	PER DOZEN	17.50	21.00	26.00	45.50	72.00	103.00	185.00
FIG. 624. WITH CHECK AND WASTE	PER DOZEN	18.50	22.00	27.50	47.50	75.00	107.00	195.00
FIG. 625. PLAIN	PER DOZEN	18.00	22.00	27.00	47.00	74.00	106.00	190.00
FIG. 625. WITH CHECK AND WASTE	PER DOZEN	19.00	23.00	28.50	49.00	77.00	110.00	200.00

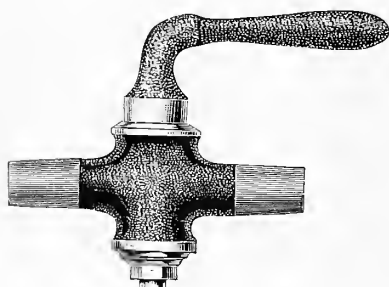


FIG. 626.
LEVER HANDLE, FOR LEAD PIPE.

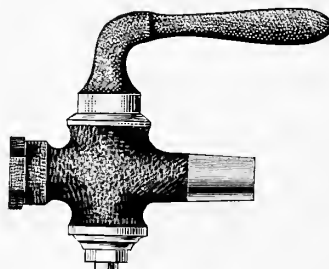


FIG. 627.
LEVER HANDLE, FOR LEAD AND IRON PIPE.

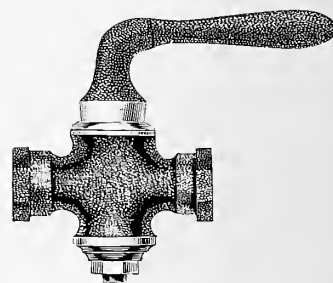


FIG. 628.
LEVER HANDLE, FOR IRON PIPE.

LEVER HANDLE ROUND-WAY STOPS.—Figs. 626, 627, and 628.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 626. PLAIN	PER DOZEN	17.00	20.00	25.00	44.00	70.00	100.00	180.00
FIG. 626. WITH CHECK AND WASTE	PER DOZEN	18.00	21.00	26.50	46.00	73.00	104.00	190.00
FIG. 627. PLAIN	PER DOZEN	17.50	21.00	26.00	45.50	72.00	103.00	185.00
FIG. 627. WITH CHECK AND WASTE	PER DOZEN	18.50	22.00	27.50	47.50	75.00	107.00	195.00
FIG. 628. PLAIN	PER DOZEN	18.00	22.00	27.00	47.00	74.00	106.00	190.00
FIG. 628. WITH CHECK AND WASTE	PER DOZEN	19.00	23.00	28.50	49.00	77.00	110.00	200.00

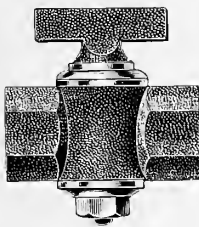
ROUGH ROUND-WAY STOPS.

FIG. 629. TEE HANDLE, FOR IRON PIPE.

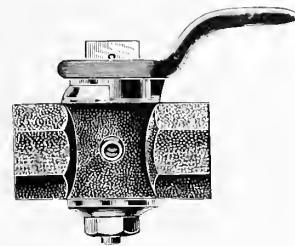


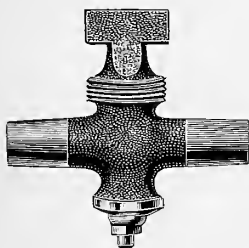
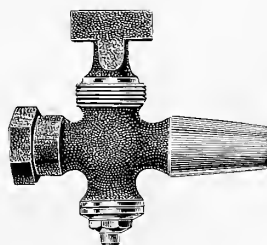
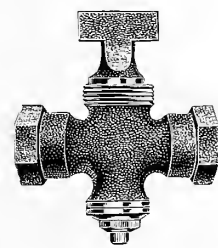
FIG. 630. LEVER HANDLE, FOR IRON PIPE.

TEE HANDLE, ROUND-WAY STOPS, FOR IRON PIPE.—Fig. 629.
NEWPORT PATTERN.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PLAIN	PER DOZEN	12.00	18.00	30.00	65.00	90.00	160.00
WITH STOP AND WASTE	PER DOZEN	13.00	19.50	32.00	68.00	94.00	170.00

LEVER HANDLE, ROUND-WAY STOPS, FOR IRON PIPE.—Fig. 630.
NEWPORT PATTERN.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PLAIN	PER DOZEN	12.00	18.00	30.00	65.00	90.00	160.00
WITH STOP AND WASTE	PER DOZEN	13.00	19.50	30.00	68.00	94.00	170.00

FIG. 631.
MINNEAPOLIS PATTERN, FOR LEAD PIPE.FIG. 632.
MINNEAPOLIS PATTERN, FOR LEAD AND IRON PIPE.FIG. 633.
MINNEAPOLIS PATTERN, FOR IRON PIPE.

TEE HANDLE, ROUND-WAY STOPS.—Figs. 631, 632, and 633.
MINNEAPOLIS PATTERN.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FOR LEAD PIPE	PER DOZEN	21.00	29.50	40.00
FOR LEAD AND IRON PIPE	PER DOZEN	21.50	30.50	41.50
FOR IRON PIPE	PER DOZEN	22.50	32.50	44.50

ROUGH STOPS.

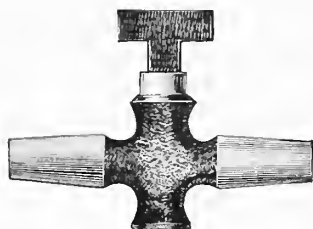


FIG. 634.
TEE HANDLE, RIVET BOTTOM

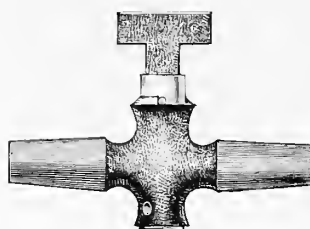


FIG. 635.
CHICAGO PATTERN.

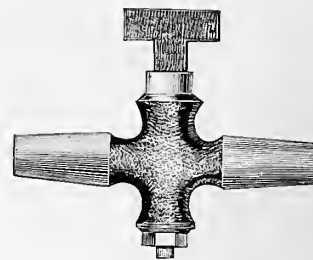


FIG. 636.
TEE HANDLE, NUT AND WASHER.

TEE HANDLE ROUGH STOPS, RIVET.—Figs. 634 and 635.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 634	PER DOZEN	6.50	8.50	11.50	14.50	18.50	27.00
FIG. 635. CHICAGO PATTERN, WITH CHECK AND WASTE	PER DOZEN	7.50	9.50	12.50	15.50	20.00	29.00

TEE HANDLE ROUGH STOPS, NUT AND WASHER.—Fig. 636.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PLAIN	PER DOZEN	7.00	9.00	12.00	15.00	19.00	28.00	46.00	64.00	110.00
WITH CHECK AND WASTE	PER DOZEN	8.00	10.00	13.00	16.00	20.50	30.00	49.00	68.00	120.00

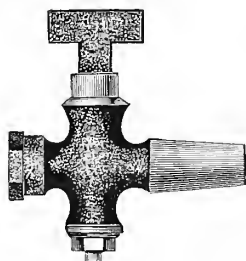


FIG. 637. TEE HANDLE, FOR LEAD
AND IRON PIPE.

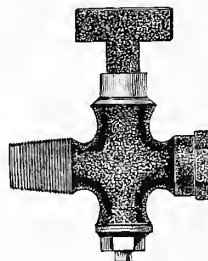


FIG. 638. TEE HANDLE, SCREWED INSIDE
AND OUTSIDE FOR IRON PIPE.

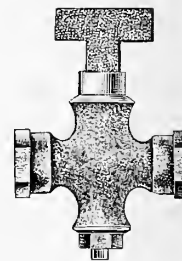
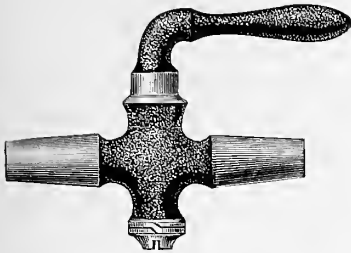
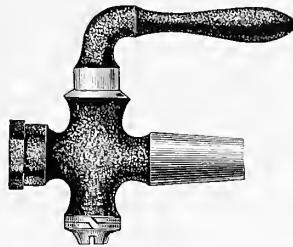
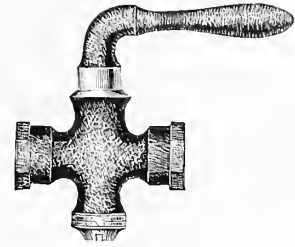


FIG. 639. TEE HANDLE,
FOR IRON PIPE.

TEE HANDLE ROUGH STOPS, NUT AND WASHER.—Figs. 637, 638, and 639.

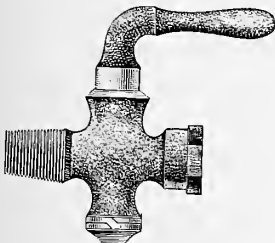
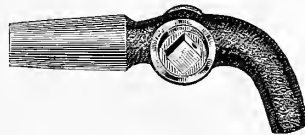
SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 637. PLAIN	PER DOZEN	7.50	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00
FIG. 637. WITH CHECK AND WASTE	PER DOZEN	8.50	10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00
FIG. 638. PLAIN	PER DOZEN	7.50	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00
FIG. 638. WITH CHECK AND WASTE	PER DOZEN	8.50	10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00
FIG. 639. PLAIN	PER DOZEN	8.00	10.00	13.00	17.00	21.00	31.00	50.00	70.00	120.00
FIG. 639. WITH CHECK AND WASTE	PER DOZEN	9.00	11.00	14.00	18.00	22.50	33.00	53.00	74.00	130.00

ROUGH STOPS.

FIG. 640.
LEVER HANDLE, FOR LEAD PIPE.FIG. 641.
LEVER HANDLE, FOR LEAD
AND IRON PIPE.FIG. 642
LEVER HANDLE, FOR
IRON PIPE.

LEVER HANDLE ROUGH STOPS.—Figs. 640, 641, and 642.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 640. PLAIN	PER DOZEN	7.00	9.00	12.00	15.00	19.00	28.00	46.00	64.00	110.00
FIG. 640. WITH CHECK AND WASTE	PER DOZEN	8.00	10.00	13.00	16.00	20.50	30.00	49.00	68.00	120.00
FIG. 641. PLAIN	PER DOZEN	7.50	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00
FIG. 641. WITH CHECK AND WASTE	PER DOZEN	8.50	10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00
FIG. 642. PLAIN	PER DOZEN	8.00	10.00	13.00	17.00	21.00	31.00	50.00	70.00	120.00
FIG. 642. WITH CHECK AND WASTE	PER DOZEN	9.00	11.00	14.00	18.00	22.50	33.00	53.00	74.00	130.00

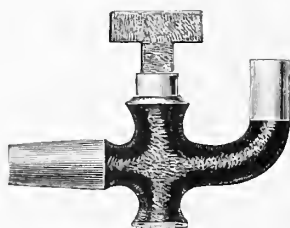
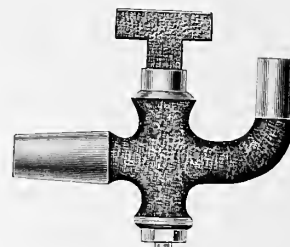
FIG. 643.
LEVER HANDLE, SCREWED
INSIDE AND OUTSIDE,
FOR IRON PIPE.FIG. 644.
BALL COCK, FOR LEAD PIPE.FIG. 645.
BALL COCK, FOR IRON PIPE.

LEVER HANDLE ROUGH STOPS.—Fig. 643.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PLAIN	PER DOZEN	7.50	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00
WITH CHECK AND WASTE	PER DOZEN	8.50	10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00

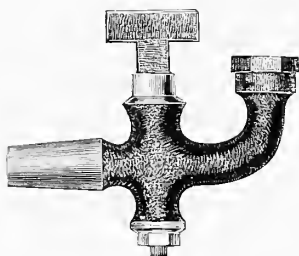
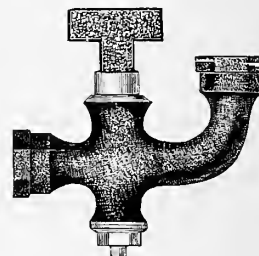
BALL COCKS.—Figs. 644 and 645.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
FIG. 644	PER DOZEN	10.00	12.00	15.00	19.50	30.00	50.00	
FIG. 645	PER DOZEN	11.00	13.00	16.50	21.50	33.00	54.00	

FIG. 646.
RIVET BOTTOM.FIG. 647.
NUT AND WASHER.

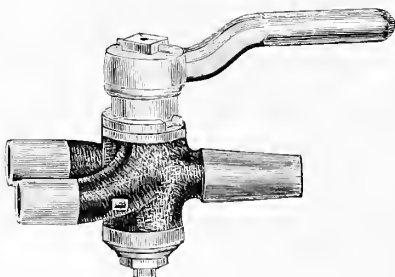
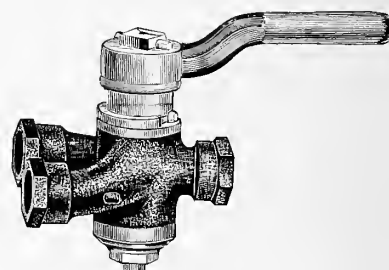
HYDRANT COCKS, FOR LEAD PIPE.—Figs. 646 and 647.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 646	PER DOZEN	13.50	16.50	20.50
FIG. 647	PER DOZEN	14.00	17.00	21.00

FIG. 648.
FOR LEAD AND IRON PIPE.FIG. 649.
FOR IRON PIPE.

HYDRANT COCKS, NUT AND WASHER.—Figs. 648 and 649.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 648	PER DOZEN	14.50	18.00	22.00
FIG. 649	PER DOZEN	15.00	18.50	23.00

FIG. 650.
FOR LEAD PIPE.FIG. 651.
FOR IRON PIPE.

RAIN AND WELL WATER COCKS.—Figs. 650 and 651.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FOR LEAD PIPE	PER DOZEN	50.00	70.00	84.00	120.00	200.00
SCREWED FOR IRON PIPE	PER DOZEN	56.00	79.00	96.00	138.00	230.00

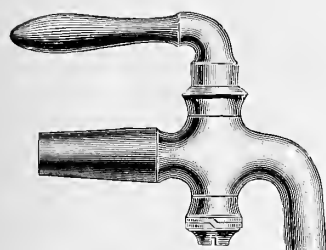


FIG. 652. FOR LEAD PIPE.

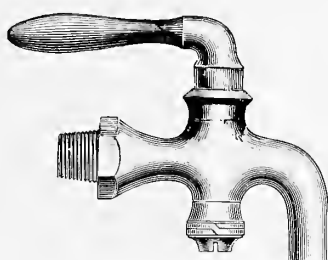
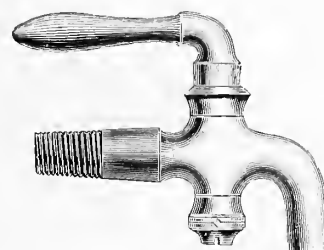


FIG. 653. FOR IRON PIPE.

FIG. 654. FOR IRON PIPE,
WITHOUT SHOULDER.

PLAIN BIBBS.—Fig. 652, 653, and 654.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 652. FINISHED	PER DOZEN	10.00	12.00	15.00	18.00	24.00	36.00	60.00	84.00	170.00
FIG. 652. NICKEL-PLATED	PER DOZEN	12.00	14.00	17.50	20.50	26.50	39.00	---	---	---
FIG. 653. FINISHED	PER DOZEN	11.00	13.00	16.00	19.00	26.00	39.00	64.00	90.00	180.00
FIG. 653. NICKEL-PLATED	PER DOZEN	13.00	15.00	18.50	21.50	28.50	42.00	---	---	---
FIG. 653. ROUGH	PER DOZEN	10.00	12.00	15.00	17.00	23.00	35.00	56.00	78.00	160.00
FIG. 654. FINISHED	PER DOZEN	11.00	13.00	16.00	19.00	26.00	39.00	64.00	90.00	180.00
FIG. 654. NICKEL-PLATED	PER DOZEN	13.00	15.00	18.50	21.50	28.50	42.00	---	---	---
FIG. 654. ROUGH	PER DOZEN	10.00	12.00	15.00	17.00	23.00	35.00	56.00	78.00	160.00

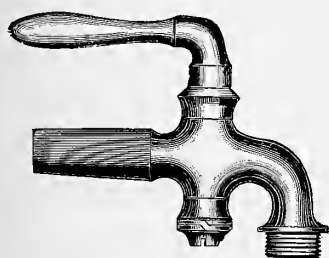


FIG. 655. FOR LEAD PIPE.

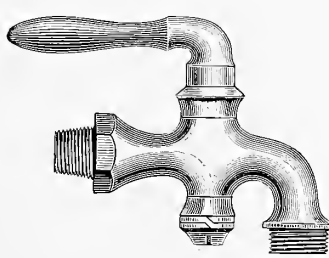
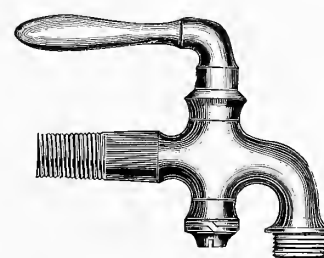


FIG. 656. FOR IRON PIPE.

FIG. 657. FOR IRON PIPE,
WITHOUT SHOULDER.

HOSE BIBBS.—Fig. 655, 656, and 657.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 655. FINISHED	PER DOZEN	16.00	19.00	26.00	39.00	64.00	90.00	180.00
FIG. 655. NICKEL-PLATED	PER DOZEN	18.50	21.50	28.50	42.00	---	---	---
FIG. 656. FINISHED	PER DOZEN	17.00	20.00	28.00	42.00	68.00	96.00	190.00
FIG. 656. NICKEL-PLATED	PER DOZEN	19.50	22.50	30.50	45.00	---	---	---
FIG. 656. ROUGH	PER DOZEN	16.00	18.00	25.00	38.00	60.00	84.00	170.00
FIG. 657. FINISHED	PER DOZEN	17.00	20.00	28.00	42.00	68.00	96.00	190.00
FIG. 657. NICKEL-PLATED	PER DOZEN	19.50	22.50	30.50	45.00	---	---	---
FIG. 657. ROUGH	PER DOZEN	16.00	18.00	25.00	38.00	60.00	84.00	170.00

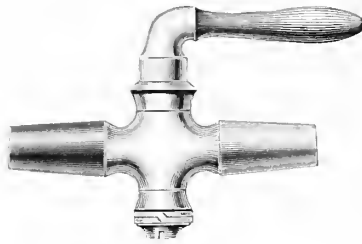


FIG. 660. FOR LEAD PIPE.

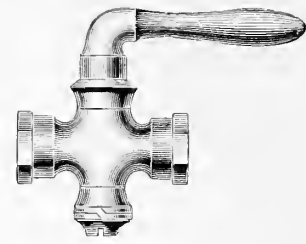


FIG. 661. FOR IRON PIPE.

PLAIN STOPS, LEVER HANDLE, FOR LEAD PIPE.—Fig. 660.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	10.50	12.50	15.50	18.50	25.00	37.00
NICKEL-PLATED	PER DOZEN	12.50	14.50	18.00	21.00	27.50	40.00

PLAIN STOPS, LEVER HANDLE, FOR IRON PIPE.—Fig. 661.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	11.50	13.50	16.50	20.50	27.00	40.00
NICKEL-PLATED	PER DOZEN	13.50	15.50	19.00	23.00	29.50	43.00

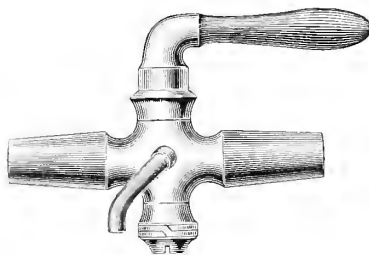


FIG. 662. FOR LEAD PIPE.

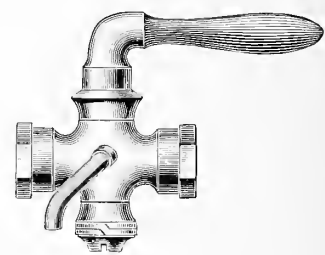


FIG. 663. FOR IRON PIPE.

SHOWER COCKS, LEVER HANDLE, FOR LEAD PIPE.—Fig. 662.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	14.00	17.00	20.00	27.00	40.00
NICKEL-PLATED	PER DOZEN	16.00	19.50	22.50	29.50	43.00

SHOWER COCKS, LEVER HANDLE, FOR IRON PIPE.—Fig. 663.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	15.00	18.00	22.00	29.00	43.00
NICKEL-PLATED	PER DOZEN	17.00	20.50	24.50	31.50	46.00

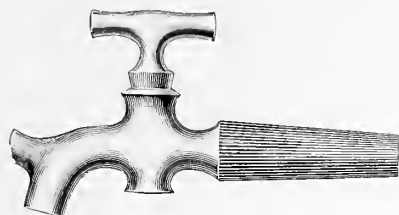


FIG. 664. RACKING COCK, TO DRIVE.

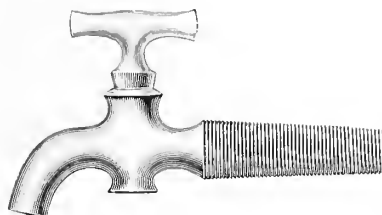


FIG. 665. RACKING COCK, TO SCREW.

RACKING COCKS.—Figs. 664 and 665.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 664. FINISHED	PER DOZEN	5.00	7.50	10.00	14.50	17.00	30.00
FIG. 665. FINISHED	PER DOZEN	5.50	8.00	11.00	16.00	19.00	32.50

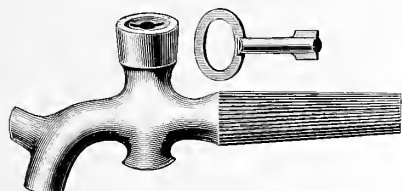


FIG. 666. LOCK COCK, TO DRIVE.

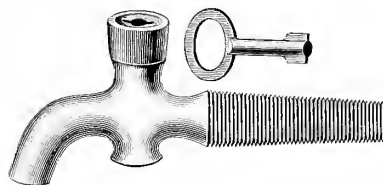


FIG. 667. LOCK COCK, TO SCREW.

RACKING COCKS.—Figs. 666 and 667.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 666. FINISHED	PER DOZEN	6.50	8.50	12.00	16.50	20.00	35.00
FIG. 667. FINISHED	PER DOZEN	7.00	9.00	13.00	18.00	22.00	37.50

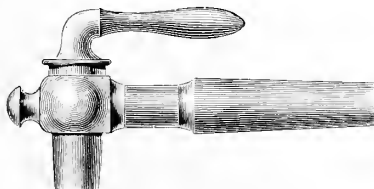


FIG. 668. COOLER COCK.

COOLER COCKS.—Fig. 668.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
FINISHED	PER DOZEN	7.00	7.50	9.00	12.00
NICKEL-PLATED	PER DOZEN	8.50	9.00	10.50	14.00

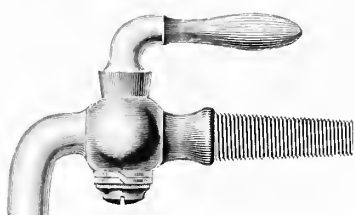


FIG. 669. LIQUOR COCK, TO SCREW.

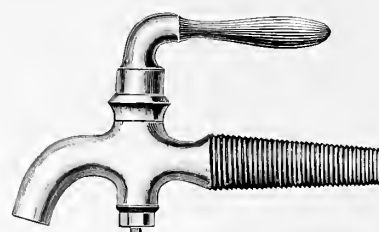


FIG. 670. KEROSENE COCK, TO SCREW.

LIQUOR COCKS, TO SCREW.—Fig. 669.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	9.50	11.50	15.50	19.50	38.50

We can also furnish these with tinned ends, to solder, at same price.

KEROSENE COCKS, TO SCREW.—Fig. 670.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	12.50	15.00	19.00	42.50

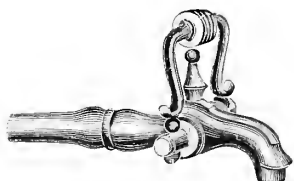


FIG. 671. URN COCK, DROP HANDLE.



FIG. 672. URN GAUGE.

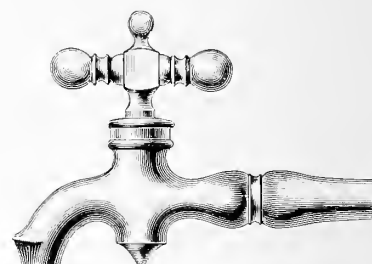


FIG. 673. URN COCK, IVORY HANDLE.

URN COCK, DROP HANDLE.—Fig. 671.

SIZE	INCHES	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
FINISHED	PER DOZEN	28.00	30.00	32.00	36.00
NICKEL-PLATED	PER DOZEN	30.00	32.00	34.00	38.50
SILVER-PLATED	PER DOZEN	35.00	38.00	41.00	48.00

URN GAUGE.—Fig. 672.

FINISHED	EACH	5.00
NICKEL-PLATED	EACH	6.00
SILVER-PLATED	EACH	9.00

URN COCK, IVORY HANDLE.—Fig. 673.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
FINISHED	PER DOZEN	20.00	21.00	24.00	28.00
NICKEL-PLATED	PER DOZEN	22.00	23.00	26.50	30.50
SILVER-PLATED	PER DOZEN	27.00	29.00	33.00	37.00

COMPRESSION WORK.

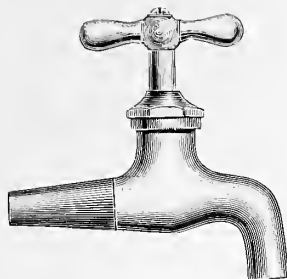


FIG. 674.
PLAIN BIBB, FOR LEAD PIPE.



FIG. 675.
HOSE BIBB, FOR LEAD PIPE.

COMPRESSION PLAIN BIBBS, FOR LEAD PIPE.—Fig. 674.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FINISHED	PER DOZEN	9.00	10.00	12.00	18.00	34.00	52.00	80.00	160.00
NICKEL-PLATED	PER DOZEN	11.00	12.50	14.50	20.50	37.00	-----	-----	-----

COMPRESSION HOSE BIBBS, FOR LEAD PIPE.—Fig. 675.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FINISHED	PER DOZEN	10.00	11.00	13.00	20.00	37.00	56.00	86.00	170.00
NICKEL-PLATED	PER DOZEN	12.00	13.50	15.50	22.50	40.00	-----	-----	-----



FIG. 676.
PLAIN BIBB, FOR IRON PIPE.

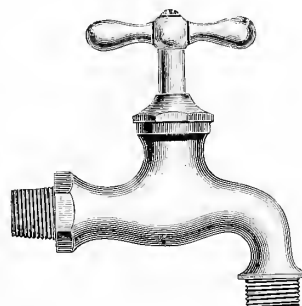


FIG. 677.
HOSE BIBB, FOR IRON PIPE.

COMPRESSION PLAIN BIBBS, FOR IRON PIPE.—Fig. 676.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FINISHED	PER DOZEN	10.00	11.00	13.00	20.00	37.00	56.00	86.00	170.00
NICKEL-PLATED	PER DOZEN	12.00	13.50	15.50	22.50	40.00	-----	-----	-----

COMPRESSION HOSE BIBBS, FOR IRON PIPE.—Fig. 677.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FINISHED	PER DOZEN	11.00	12.00	14.00	22.00	40.00	60.00	92.00	180.00
NICKEL-PLATED	PER DOZEN	13.00	14.50	16.50	24.50	43.00	-----	-----	-----

COMPRESSION WORK.



FIG. 678. PLAIN BIBB, WITH STUFFING BOX



FIG. 679. HOSE BIBB, WITH STUFFING BOX.

COMPRESSION PLAIN BIBBS, WITH STUFFING BOX, FOR LEAD PIPE.—Fig. 678.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
FINISHED	PER DOZEN	12.00	14.00	21.00	38.00
NICKEL-PLATED	PER DOZEN	14.50	16.50	23.50	41.00

COMPRESSION HOSE BIBBS, WITH STUFFING BOX, FOR LEAD PIPE.—Fig. 679.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
FINISHED	PER DOZEN	13.00	15.00	23.00	41.00
NICKEL-PLATED	PER DOZEN	15.50	17.50	25.50	44.00

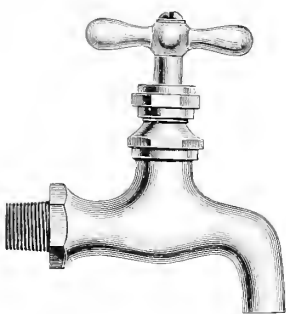


FIG. 680. PLAIN BIBB, FOR IRON PIPE, WITH STUFFING BOX.

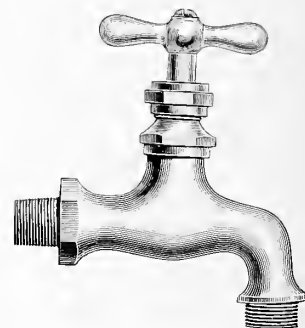


FIG. 681. HOSE BIBBS, FOR IRON PIPE, WITH STUFFING BOX.

COMPRESSION PLAIN BIBBS, FOR IRON PIPE, WITH STUFFING BOX.—Fig. 680.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
FINISHED	PER DOZEN	12.00	13.00	15.00	23.00
NICKEL-PLATED	PER DOZEN	14.00	15.50	17.50	25.00

COMPRESSION HOSE BIBBS, FOR IRON PIPE, WITH STUFFING BOX.—Fig. 681.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
FINISHED	PER DOZEN	14.00	16.00	25.00	44.00
NICKEL-PLATED	PER DOZEN	16.50	18.50	27.50	47.00

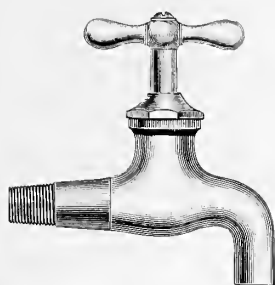
COMPRESSION WORK.

FIG. 682. PLAIN BIBB, FOR IRON PIPE.

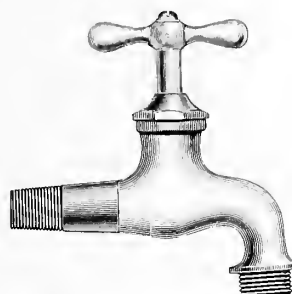


FIG. 683. HOSE BIBB, FOR IRON PIPE.

COMPRESSION PLAIN BIBBS, FOR IRON PIPE, WITHOUT SHOULDER.—Fig. 682.

SIZE INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
ROUGH PER DOZEN	9.50	10.50	12.00	19.00	33.00	48.00	74.00	150.00
FINISHED PER DOZEN	10.00	11.00	13.00	20.00	37.00	56.00	86.00	170.00
NICKEL-PLATED PER DOZEN	12.00	13.50	15.50	22.50	40.00	-----	-----	-----

COMPRESSION HOSE BIBBS, FOR IRON PIPE, WITHOUT SHOULDER.—Fig. 683.

SIZE INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
ROUGH PER DOZEN	10.50	11.50	13.00	21.00	36.00	52.00	80.00	160.00
FINISHED PER DOZEN	11.00	12.00	14.00	22.00	40.00	60.00	92.00	180.00
NICKEL-PLATED PER DOZEN	13.00	14.50	16.50	24.50	43.00	-----	-----	-----

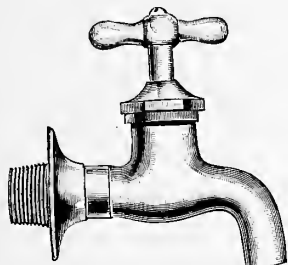


FIG. 684. PLAIN BIBB, FOR IRON PIPE, WITH FLANGE.

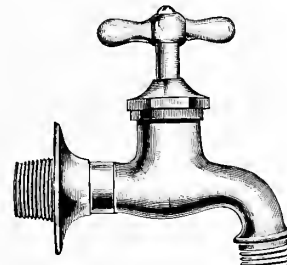


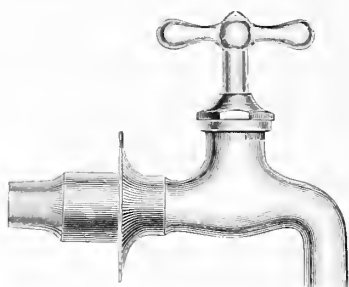
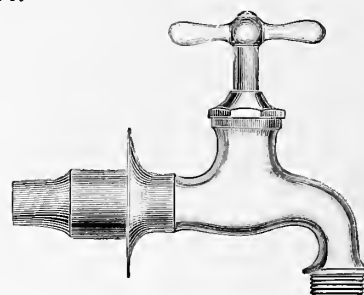
FIG. 685. HOSE BIBB, FOR IRON PIPE, WITH FLANGE.

COMPRESSION BIBBS, WITH FLANGE, FOR IRON PIPE.—Figs. 684 and 685.

SIZE INCHES	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 684. FINISHED PER DOZEN	16.00	17.50	25.00	46.00
FIG. 684. NICKEL-PLATED PER DOZEN	18.50	20.00	27.50	49.00
FIG. 685. FINISHED PER DOZEN	17.00	18.50	27.00	49.00
FIG. 685. NICKEL-PLATED PER DOZEN	19.50	21.00	29.50	52.00

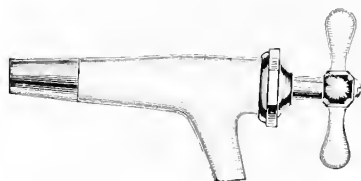
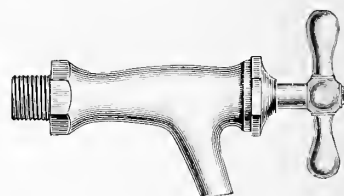
For Stuffing Box add to regular list per dozen, $\frac{1}{2}$ and $\frac{5}{8}$ inch, \$2.00 ; $\frac{3}{4}$ inch, \$3.00 ; 1-inch, \$4.00.

COMPRESSION WORK.

FIG. 686.
PLAIN BIBB, FLANGE, AND THIMBLE.FIG. 687.
HOSE BIBB, FLANGE, AND THIMBLE.

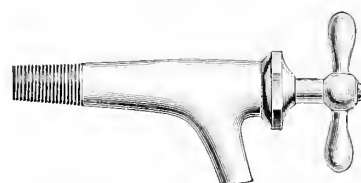
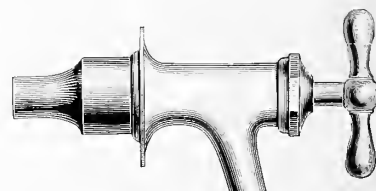
COMPRESSION BIBBS, FLANGE, AND THIMBLE.—Figs. 686 and 687.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 686. FINISHED	PER DOZEN	16.00	18.00	21.00	28.00	51.00
FIG. 686. NICKEL-PLATED	PER DOZEN	19.00	21.50	24.50	32.00	55.00
FIG. 687. FINISHED	PER DOZEN	17.00	19.00	22.00	30.00	54.00
FIG. 687. NICKEL-PLATED	PER DOZEN	20.00	22.50	26.50	34.00	58.00

FIG. 688.
WASH TRAY BIBB, FOR LEAD PIPE.FIG. 689.
WASH TRAY BIBB, FOR IRON PIPE.

COMPRESSION WASH TRAY BIBBS.—Figs. 688 and 689.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 688. FINISHED	PER DOZEN	10.00	11.00	13.00	19.00	36.00
FIG. 688. NICKEL-PLATED	PER DOZEN	12.00	13.50	15.50	21.50	39.00
FIG. 689. FINISHED	PER DOZEN	11.00	12.00	14.00	21.00	39.00
FIG. 689. NICKEL-PLATED	PER DOZEN	13.00	14.50	16.50	23.50	42.00

FIG. 690.
WASH TRAY BIBB, FOR IRON PIPE, WITHOUT SHOULDER.FIG. 691.
WASH TRAY BIBB, FLANGE, AND THIMBLE.

COMPRESSION WASH TRAY BIBBS.—Figs. 690 and 691.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 690. FINISHED	PER DOZEN	-----	12.00	14.00	21.00	39.00
FIG. 690. NICKEL-PLATED	PER DOZEN	-----	14.50	16.50	23.50	42.00
FIG. 691. FINISHED	PER DOZEN	17.00	19.00	22.00	30.00	53.00
FIG. 691. NICKEL-PLATED	PER DOZEN	20.00	22.50	25.50	34.00	57.00

For Stuffing Box add to regular list per dozen, $\frac{1}{2}$ and $\frac{5}{8}$ inch, \$2.00; $\frac{3}{4}$ -inch, \$3.00; 1-inch, \$4.00.

COMPRESSION WORK.

FIG. 692. WASH TRAY BIBB, FOR LEAD PIPE.



FIG. 693. WASH TRAY BIBB, FOR IRON PIPE.

COMPRESSION WASH TRAY BIBBS.—Figs. 692 and 693.

SIZE	INCHES		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 692. FINISHED	PER DOZEN		10.00	11.00	13.00	19.00	36.00
FIG. 692. NICKEL-PLATED	PER DOZEN		12.00	13.50	15.50	21.50	39.00
FIG. 693. FINISHED	PER DOZEN		11.00	12.00	14.00	21.00	39.00
FIG. 693. NICKEL-PLATED	PER DOZEN		13.00	14.50	16.50	23.50	42.00

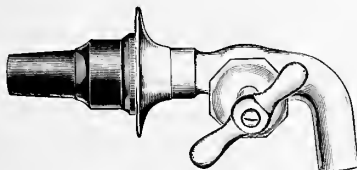


FIG. 694. WASH TRAY BIBB, FLANGE, AND THIMBLE.

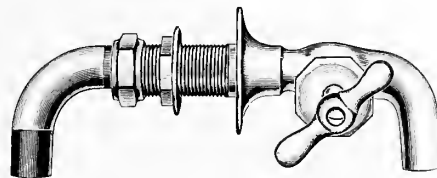


FIG. 695. WASH TRAY BIBB, FLANGE, NUT, AND BENT COUPLING.

COMPRESSION WASH TRAY BIBBS.—Figs. 694 and 695.

SIZE	INCHES		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 694. FINISHED	PER DOZEN		17.00	19.00	22.00	30.00	53.00
FIG. 694. NICKEL-PLATED	PER DOZEN		20.00	22.50	25.50	34.00	57.00
FIG. 695. FINISHED	PER DOZEN		-----	26.00	33.00	46.00	-----
FIG. 695. NICKEL-PLATED	PER DOZEN		-----	29.50	36.50	50.00	-----

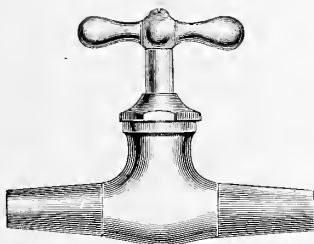


FIG. 696. PLAIN STOP.

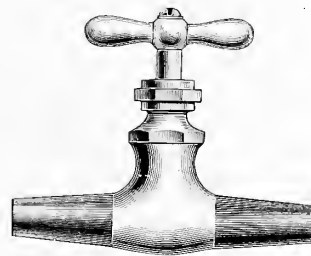


FIG. 697. PLAIN STOP, WITH STUFFING BOX.

COMPRESSION STOPS.—Figs. 696 and 697.

SIZE	INCHES		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 696. FINISHED	PER DOZEN		10.00	11.00	13.00	19.50	36.00
FIG. 696. NICKEL-PLATED	PER DOZEN		12.00	13.50	15.50	22.00	39.00
FIG. 697. ADD TO ABOVE LIST	PER DOZEN		2.00	2.00	2.00	3.00	3.00

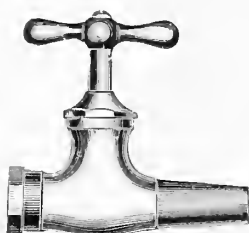
COMPRESSION WORK.

FIG. 698. FOR LEAD AND IRON PIPE.

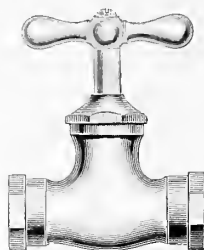


FIG. 699. FOR IRON PIPE.

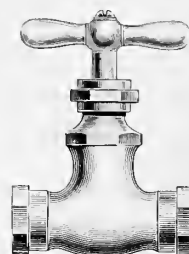


FIG. 700. FOR IRON PIPE, WITH STUFFING BOX.

COMPRESSION STOPS, FOR LEAD AND IRON PIPE.—Fig. 698.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	10.50	11.50	14.00	20.50	37.50
NICKEL-PLATED	PER DOZEN	12.50	14.00	16.50	23.00	40.00

COMPRESSION STOPS, FOR IRON PIPE.—Fig. 699.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	11.00	12.00	15.00	21.50	39.00
NICKEL-PLATED	PER DOZEN	13.00	14.50	17.50	24.00	42.00

COMPRESSION STOPS, FOR IRON PIPE, WITH STUFFING BOX.—Fig. 700.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	13.00	14.00	17.00	24.50	43.00
NICKEL-PLATED	PER DOZEN	15.00	16.50	19.50	27.00	46.00

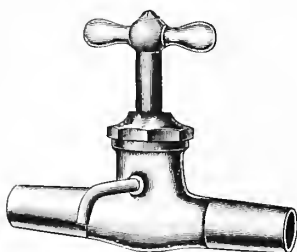


FIG. 701. STOP AND WASTE.

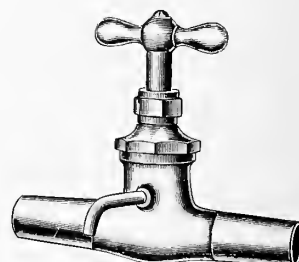


FIG. 702. STOP AND WASTE, WITH STUFFING BOX.

COMPRESSION STOP AND WASTE.—Fig. 701.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	12.00	14.00	20.50	37.00
NICKEL-PLATED	PER DOZEN	14.50	16.50	23.00	40.00

COMPRESSION STOP AND WASTE, WITH STUFFING BOX.—Fig. 702.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	15.50	18.50	25.50	44.00
NICKEL-PLATED	PER DOZEN	18.00	21.00	28.00	47.00

COMPRESSION WORK.

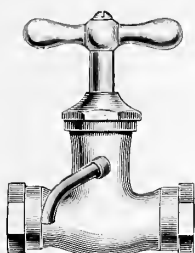


FIG. 703.

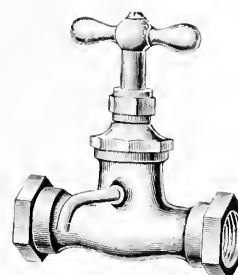


FIG. 704. WITH STUFFING BOX.

COMPRESSION STOP AND WASTE, FOR IRON PIPE.—Figs. 703 and 704.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 703. FINISHED	PER DOZEN	13.00	16.00	22.50
FIG. 703. NICKEL-PLATED	PER DOZEN	15.50	18.50	25.00
FIG. 704. FINISHED	PER DOZEN	16.50	20.50	27.50
FIG. 704. NICKEL-PLATED	PER DOZEN	19.00	23.00	30.00

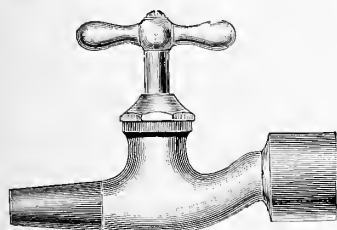


FIG. 705.

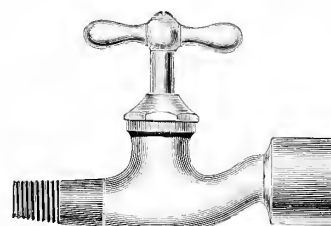


FIG. 706.

COMPRESSION URINAL COCKS.—Figs. 705 and 706.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$
FIG. 705. FINISHED	PER DOZEN	18.00	20.00
FIG. 705. NICKEL-PLATED	PER DOZEN	21.00	23.00
FIG. 706. FINISHED	PER DOZEN	19.00	21.00
FIG. 706. NICKEL-PLATED	PER DOZEN	22.00	24.00

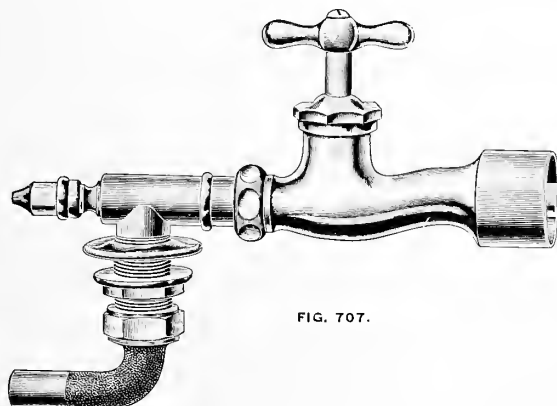


FIG. 707.

COMPRESSION URINAL COCKS, WITH FLANGE, NUT, AND BENT COUPLING.—Fig. 707.
ADJUSTABLE FLANGE AND UNION.

SIZE	INCHES	$\frac{5}{8}$
FINISHED	PER DOZEN	54.00
NICKEL-PLATED	PER DOZEN	60.00

For Loose Key Urinal Cocks, add to list, per dozen, \$6.00.

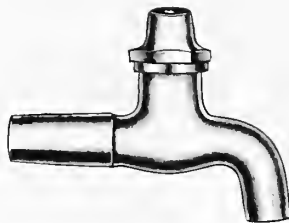
COMPRESSION WORK.

FIG. 708. PLAIN BIBB, FOR LEAD PIPE, LOOSE KEY.

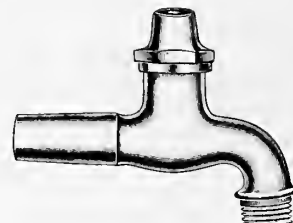


FIG. 709. HOSE BIBB, FOR LEAD PIPE, LOOSE KEY.

COMPRESSION BIBBS, WITH LOOSE KEY, FOR LEAD PIPE.—Figs. 708 and 709.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FIG. 708. FINISHED	PER DOZEN	16.00	18.00	25.00	42.00
FIG. 708. NICKEL-PLATED	PER DOZEN	18.50	20.50	27.50	45.00
FIG. 709. FINISHED	PER DOZEN	17.00	19.00	27.00	45.00
FIG. 709. NICKEL-PLATED	PER DOZEN	19.50	21.50	29.50	48.00

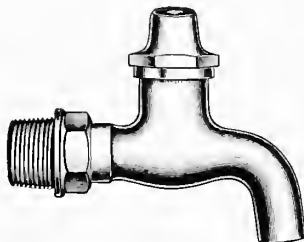


FIG. 710. FOR IRON PIPE, LOOSE KEY.

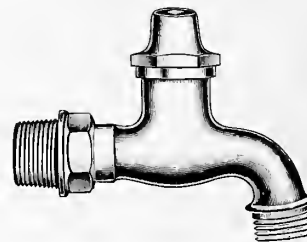


FIG. 711. FOR IRON PIPE, LOOSE KEY.

COMPRESSION BIBBS, WITH LOOSE KEY, FOR IRON PIPE.—Figs. 710 and 711.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FIG. 710. FINISHED	PER DOZEN	17.00	19.00	27.00	45.00
FIG. 710. NICKEL-PLATED	PER DOZEN	19.50	21.50	29.50	48.00
FIG. 711. FINISHED	PER DOZEN	18.00	20.00	29.00	48.00
FIG. 711. NICKEL-PLATED	PER DOZEN	20.50	22.50	31.50	51.00

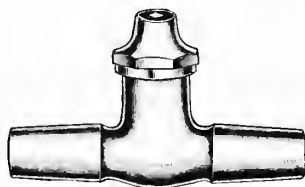


FIG. 712. PLAIN STOP, LOOSE KEY, FOR LEAD PIPE.

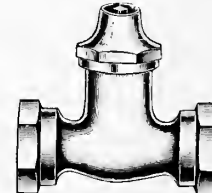


FIG. 713. PLAIN STOP, LOOSE KEY, FOR IRON PIPE

COMPRESSION STOPS, WITH LOOSE KEY.—Figs. 712 and 713.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FIG. 712. FINISHED	PER DOZEN	17.00	19.00	26.50	44.00
FIG. 712. NICKEL-PLATED	PER DOZEN	19.50	21.50	29.00	47.00
FIG. 713. FINISHED	PER DOZEN	18.00	21.00	28.50	47.00
FIG. 713. NICKEL-PLATED	PER DOZEN	20.50	23.50	31.00	50.00

COMPRESSION WORK.

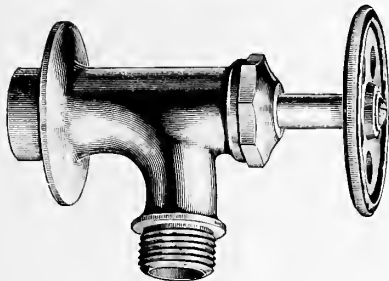


FIG. 714. SILL COCK.

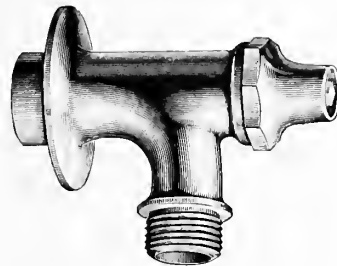
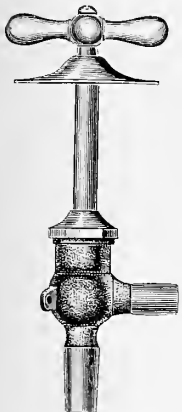
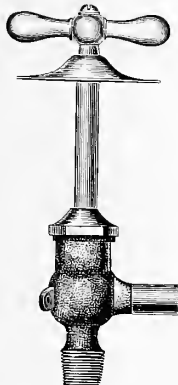
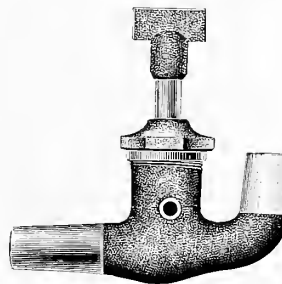
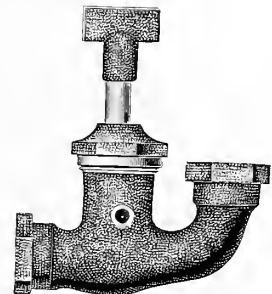


FIG. 715. SILL COCK, WITH LOOSE KEY.

COMPRESSION SILL COCKS.—Figs. 714 and 715.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 714. FINISHED	PER DOZEN	28.00	32.00	38.00
FIG. 714. NICKEL-PLATED	PER DOZEN	32.00	36.00	42.00
FIG. 715. FINISHED, LOOSE KEY	PER DOZEN	34.00	38.00	44.00
FIG. 715. NICKEL-PLATED, LOOSE KEY	PER DOZEN	38.00	42.00	48.00

For Iron Pipe add to list, per dozen, \$1.50; for Caps add, per dozen, \$2.00. Sill Cocks are always furnished without Caps, unless otherwise ordered.

FIG. 716. HOPPER COCK,
FOR LEAD PIPE.FIG. 717. HOPPER COCK,
FOR LEAD AND IRON PIPE.FIG. 718. HYDRANT COCK,
FOR LEAD PIPE.FIG. 720. HYDRANT COCK,
FOR IRON PIPE.

COMPRESSION HOPPER COCKS.—Figs. 716 and 717.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 716. ROUGH, FINISHED FLANGE AND HANDLE	PER DOZEN	16.00	19.00	24.00
FIG. 716. ROUGH, NICKEL-PLATED FLANGE AND HANDLE	PER DOZEN	18.50	21.50	26.50
FIG. 717. ROUGH, FINISHED FLANGE AND HANDLE	PER DOZEN	17.00	20.00	26.00
FIG. 717. ROUGH, NICKEL-PLATED FLANGE AND HANDLE	PER DOZEN	19.50	22.50	28.50

COMPRESSION HYDRANT COCKS.—Figs. 718 and 720.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 718. FOR LEAD PIPE	PER DOZEN	14.00	17.00	38.00
FOR LEAD AND IRON PIPE (NOT ILLUSTRATED)	PER DOZEN	14.50	18.00	39.50
FIG. 720. FOR IRON PIPE	PER DOZEN	15.00	19.00	41.00

COMPRESSION WORK.

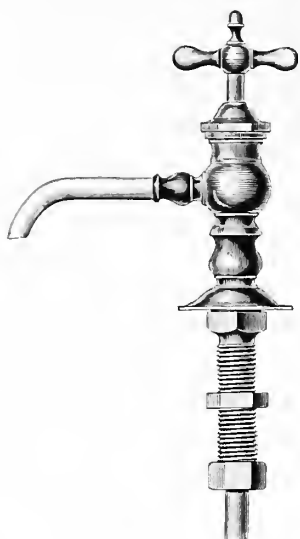


FIG. 721. TEE HANDLE.

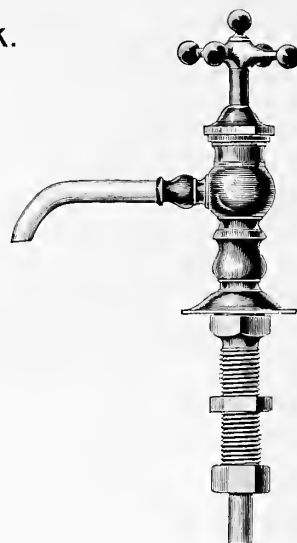


FIG. 722. CROSS HANDLE.

COMPRESSION BASIN COCKS.—Figs. 721 and 722.

FIG. 721. NICKEL-PLATED	PER DOZEN	19.00
FIG. 722. NICKEL-PLATED	PER DOZEN	20.00



FIG. 723. HEAVY PATTERN, WITH STUFFING BOX.

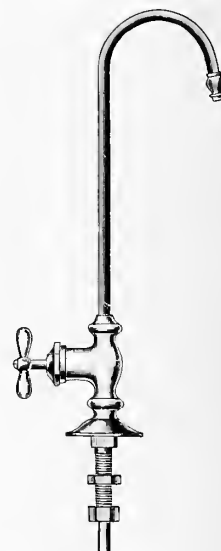


FIG. 724. PANTRY COCK.

COMPRESSION BASIN COCKS, WITH STUFFING BOX.—Fig. 723.

CROSS HANDLE, NICKEL-PLATED	PER DOZEN	30.00
TEE HANDLE, NICKEL-PLATED	PER DOZEN	28.00

COMPRESSION PANTRY COCKS.—Fig. 724.

CROSS HANDLE, NICKEL-PLATED	PER DOZEN	36.00
TEE HANDLE, NICKEL-PLATED	PER DOZEN	34.00

COMPRESSION WORK.

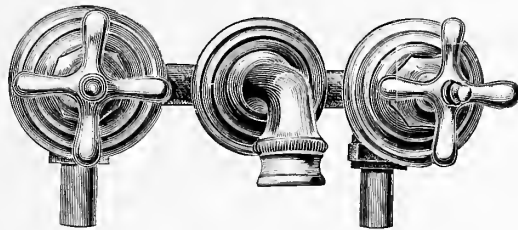


FIG. 725.

COMPRESSION DOUBLE BATH COCK.—Fig. 725.

NICKEL-PLATED	EACH	5.50
-------------------------	------	------

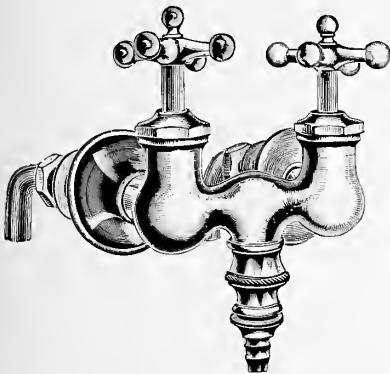


FIG. 726. PLAIN.

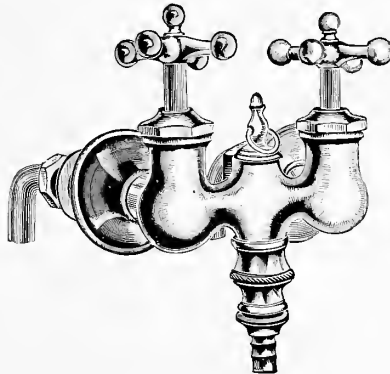


FIG. 727. WITH CHAIN STAY.

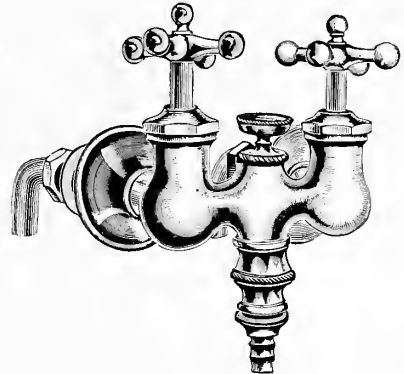


FIG. 728. WITH RING CUP.

COMPRESSION DOUBLE BATH COCKS.

FIGURE	726	727	728
NICKEL-PLATED EACH	7.00	8.00	8.00

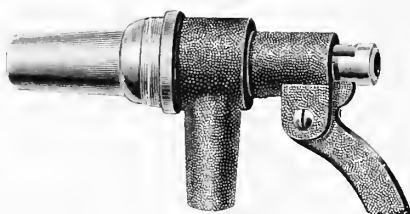


FIG. 729. FOR LEAD PIPE.

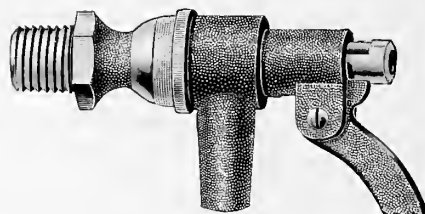


FIG. 730. FOR IRON PIPE.

IMPROVED BALL COCKS.—Figs. 729 and 730.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 729	PER DOZEN	12.00	14.00	20.00	34.00	56.00	150.00
FIG. 730	PER DOZEN	12.00	14.00	20.00	34.00	56.00	150.00



FIG. 731. BALL COCK, BOTTOM SUPPLY.

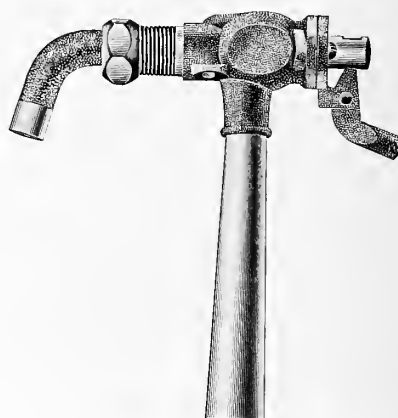


FIG. 732. BALL COCK, WITH LUGS, FOR TOP SUPPLY.

BALL COCKS, FOR CLOSET TANKS.—Figs. 731 and 732.

FIGURE	731	732
PER DOZEN	26.00	26.00



FIG. 733. WITH LEVER.



FIG. 734. WITH SPUDS TAPPED, FOR IRON PIPE.

COPPER BALLS.—Figs. 733 and 734.

SIZE	INCHES	5	6	7	8	9	10	12
FIG. 733	PER DOZEN	6.00	7.00	10.50	24.00	36.00	48.00	72.00
FIG. 734	PER DOZEN	4.00	6.00	9.00	15.00	-----	-----	-----

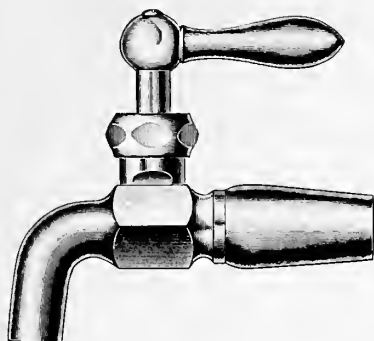
FULLER WORK.

FIG. 735. PLAIN BIBB.

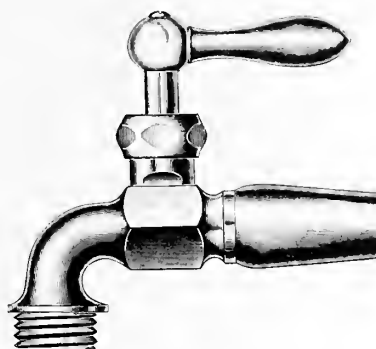


FIG. 736. HOSE BIBB.

FULLER PLAIN BIBBS.—Fig. 735.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	18.00	20.00	26.00	36.00
NICKEL-PLATED	PER DOZEN	22.00	24.00	32.00	46.00

FULLER HOSE BIBBS.—Fig. 736.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	21.00	24.00	30.00	38.00
NICKEL-PLATED	PER DOZEN	25.00	28.00	36.00	48.00

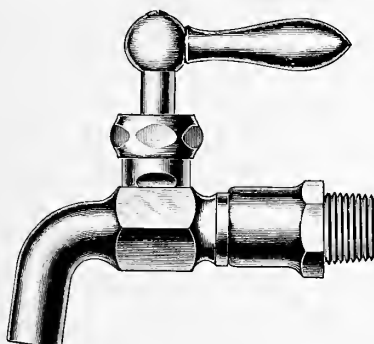


FIG. 737. PLAIN BIBB, FOR IRON PIPE.

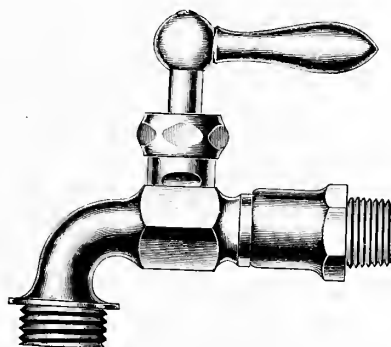


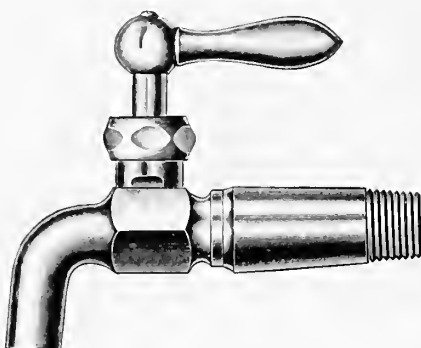
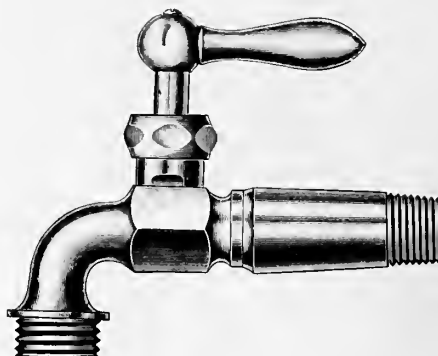
FIG. 738. HOSE BIBB, FOR IRON PIPE.

FULLER PLAIN BIBBS, FOR IRON PIPE.—Fig. 737.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	21.00	24.00	30.00	40.00
NICKEL-PLATED	PER DOZEN	25.00	28.00	35.00	48.00

FULLER HOSE BIBBS, FOR IRON PIPE.—Fig. 738.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	24.00	27.00	32.00	42.00
NICKEL-PLATED	PER DOZEN	28.00	31.00	37.00	50.00

FULLER WORK.FIG. 739. PLAIN BIBB, FOR IRON PIPE,
WITHOUT SHOULDER.FIG. 740. HOSE BIBB, FOR IRON PIPE,
WITHOUT SHOULDER.**FULLER PLAIN BIBBS, FOR IRON PIPE, WITHOUT SHOULDER.—Fig. 739.**

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
FINISHED	PER DOZEN	21.00	24.00	30.00	40.00
NICKEL-PLATED	PER DOZEN	25.00	28.00	35.00	48.00

FULLER HOSE BIBBS, FOR IRON PIPE, WITHOUT SHOULDER.—Fig. 740.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
FINISHED	PER DOZEN	24.00	27.00	32.00	42.00
NICKEL-PLATED	PER DOZEN	28.00	31.00	37.00	50.00

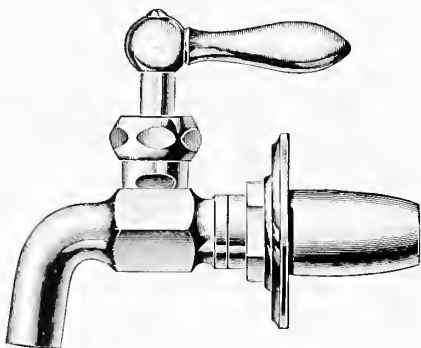


FIG. 741. PLAIN BIBB, FLANGE, AND THIMBLE.

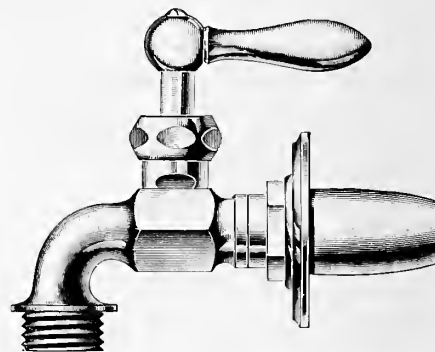


FIG. 742. HOSE BIBB, FLANGE, AND THIMBLE.

FULLER PLAIN BIBBS, FLANGE, AND THIMBLE.—Fig. 741.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	23.00	26.00	28.00	36.00	48.00
NICKEL-PLATED	PER DOZEN	28.00	32.00	34.00	42.00	58.00

FULLER HOSE BIBBS, FLANGE, AND THIMBLE.—Fig. 742.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	26.00	29.00	32.00	40.00	52.00
NICKEL-PLATED	PER DOZEN	31.00	35.00	38.00	46.00	62.00

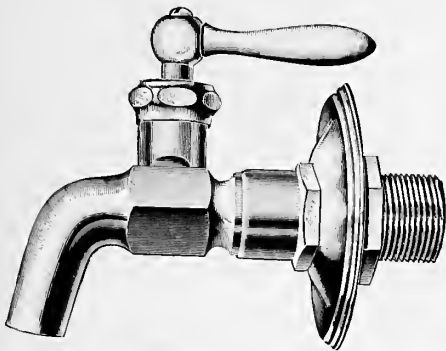
FULLER WORK.

FIG. 743. PLAIN BIBB, WITH FLANGE, FOR IRON PIPE.

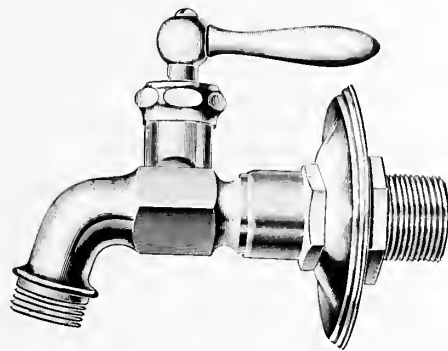


FIG. 744. HOSE BIBB, WITH FLANGE, FOR IRON PIPE.

FULLER PLAIN BIBBS, WITH FLANGE, FOR IRON PIPE.—Fig. 743.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	29.00	32.00	40.00	52.00
NICKEL-PLATED	PER DOZEN	35.00	38.00	46.00	62.00

FULLER HOSE BIBBS, WITH FLANGE, FOR IRON PIPE.—Fig. 744.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	32.00	36.00	44.00	56.00
NICKEL-PLATED	PER DOZEN	38.00	42.00	50.00	66.00

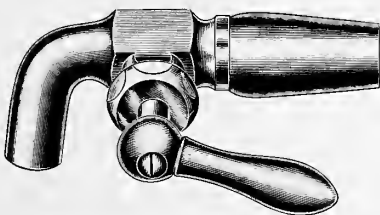


FIG. 745. WASH TRAY BIBB.

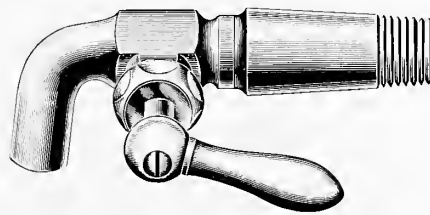


FIG. 746. WASH TRAY BIBB, FOR IRON PIPE.

FULLER WASH TRAY BIBBS.—Fig. 745.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	20.00	22.50	30.00	40.00
NICKEL-PLATED	PER DOZEN	24.00	26.50	36.00	50.00

**FULLER WASH TRAY BIBBS, FOR IRON PIPE.—Fig. 746.
WITHOUT SHOULDER.**

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	23.00	26.50	34.00	44.00
NICKEL-PLATED	PER DOZEN	27.00	30.50	40.00	54.00

FULLER WORK.



FIG. 747. WASH TRAY BIBB, WITH FLANGE AND THIMBLE.



FIG. 748. WASH TRAY BIBB, WITH FLANGE, FOR IRON PIPE

FULLER WASH TRAY BIBBS, FLANGE AND THIMBLE.—Figs. 747 and 748.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FIG. 747. FINISHED	PER DOZEN	26.00	28.00	36.00	50.00
FIG. 747. NICKEL-PLATED	PER DOZEN	32.00	34.00	42.00	60.00
FIG. 748. FINISHED	PER DOZEN	29.00	32.00	40.00	54.00
FIG. 748. NICKEL-PLATED	PER DOZEN	35.00	38.00	46.00	64.00

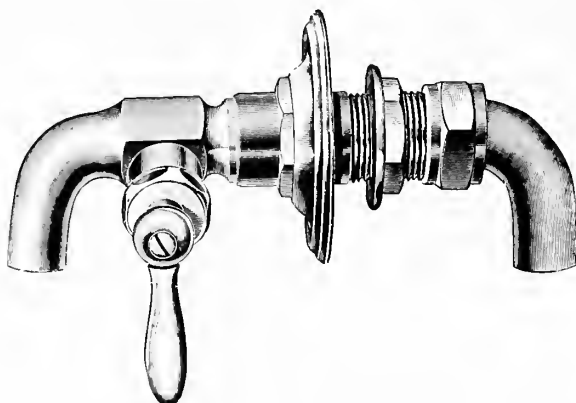


FIG. 749. WASH TRAY BIBB, FLANGE, NUT, AND BENT COUPLING.

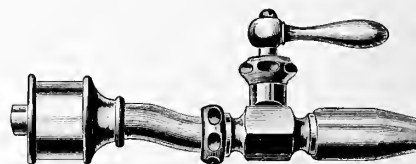


FIG. 750. URINAL COCK.

FULLER WASH TRAY BIBBS, FLANGE, NUT, AND BENT COUPLING.—Fig. 749.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	35.00	40.00	54.00	74.00
NICKEL-PLATED	PER DOZEN	41.00	46.00	60.00	84.00

FULLER URINAL COCKS.—Fig. 750.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$
FINISHED	PER DOZEN	27.00	31.00
NICKEL-PLATED	PER DOZEN	29.50	33.50

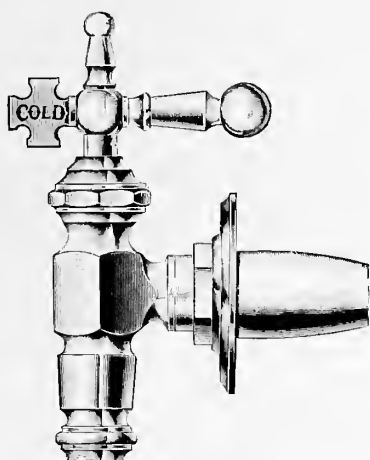


FIG. 751. UPRIGHT BATH BIBB, FLANGE, AND THIMBLE.

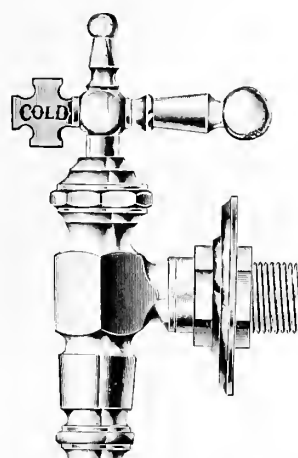


FIG. 752. UPRIGHT BATH BIBB, WITH FLANGE, FOR IRON PIPE.

FULLER UPRIGHT BATH BIBBS, FLANGE, AND THIMBLE.—Fig. 751.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	25.00	28.00	34.00	48.00
NICKEL-PLATED	PER DOZEN	31.00	34.00	40.00	56.00

FULLER UPRIGHT BATH BIBBS, WITH FLANGE, FOR IRON PIPE.—Fig. 752.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
FINISHED	PER DOZEN	28.00	32.00	38.00	52.00
NICKEL-PLATED	PER DOZEN	34.00	38.00	44.00	60.00



FIG. 753. ECCENTRIC.



FIG. 754. RUBBER BALL.



FIG. 755. BALL STEM, WITH BALL.

FULLER WORK TRIMMINGS.—Figs. 753, 754, and 755.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
FIG. 753	PER DOZEN	3.00	3.00	4.00	6.00	---
FIG. 754	PER DOZEN	.75	.75	1.00	1.25	2.00
FIG. 755	PER DOZEN	3.00	3.00	4.00	6.00	---

FULLER WORK.



FIG. 756. NUMBER 1.



FIG. 757. NUMBER 2.

FULLER BASIN COCKS.—Figs. 756 and 757.

FIGURE	756	757
NICKEL-PLATED	PER DOZEN 40.00	44.00

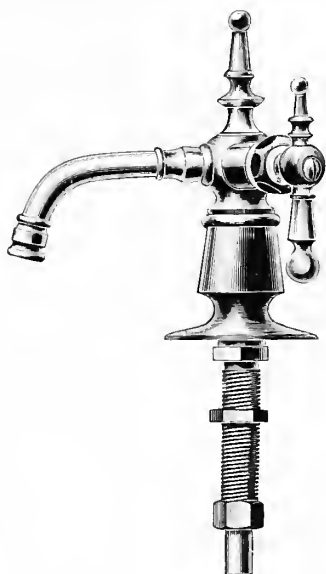


FIG. 758. NUMBER 3.



FIG. 759. NUMBER 4.

FULLER BASIN COCKS.—Figs. 758 and 759.

FIGURE	758	759
NICKEL-PLATED	PER DOZEN 54.00	64.00

FULLER WORK.

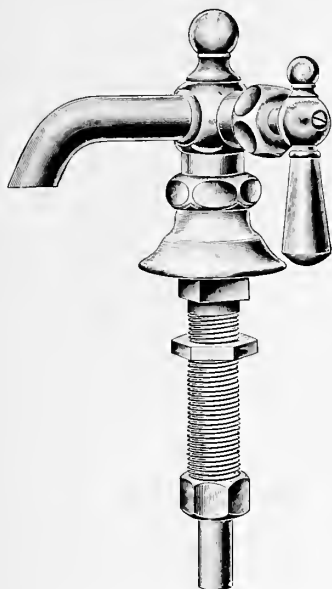


FIG. 760. NUMBER 6.
FULLER BASIN COCK, LOW-DOWN PATTERN.



FIG. 761. NUMBER 5.
FULLER BASIN COCK, WORLD'S FAIR PATTERN.

FULLER BASIN COCKS.—Figs. 760 and 761.

FIGURE	760	761
NICKEL-PLATED PER DOZEN	72.00	40.00



FIG. 762. PANTRY COCK.

FULLER PANTRY COCKS.—Fig. 762.

NUMBER	1	2	3
NICKEL-PLATED PER DOZEN	42.00	50.00	60.00

FULLER DOUBLE PANTRY COCKS.—Fig. 763.

NUMBER	8	9
NICKEL-PLATED EACH	13.00	18.00

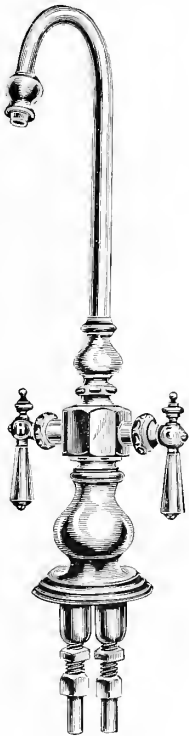


FIG. 763. DOUBLE PANTRY COCK.

FULLER WORK.

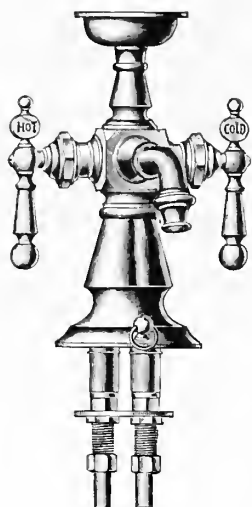


FIG. 764. DOUBLE BASIN COCK, No. 8.

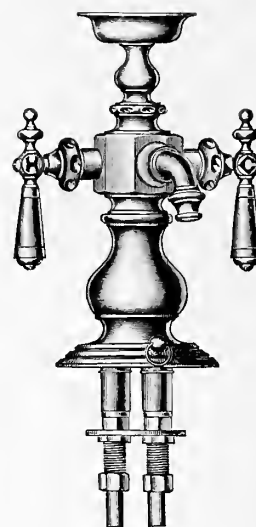


FIG. 765. DOUBLE BASIN COCK, No. 9.

DOUBLE BASIN COCKS.—Figs. 764 and 765.

NUMBER	8	9
NICKEL-PLATED EACH	13.00	20.00

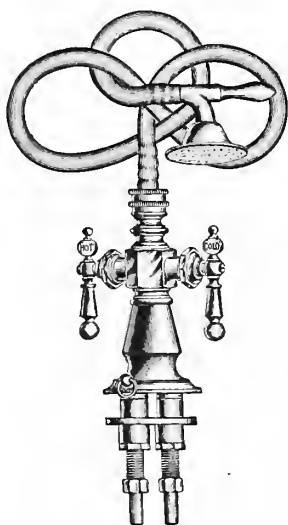


FIG. 766. DOUBLE SHAMPOO COCK, No. 8.

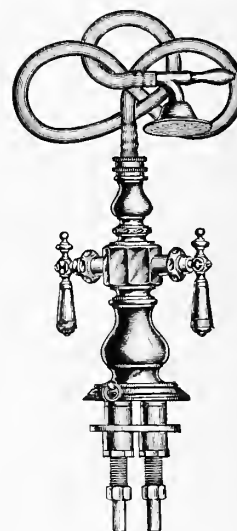


FIG. 767. DOUBLE SHAMPOO COCK, No. 9.

DOUBLE SHAMPOO COCKS.—Figs. 766 and 767.

NUMBER	8	9
NICKEL-PLATED EACH	14.00	21.00

FULLER WORK.

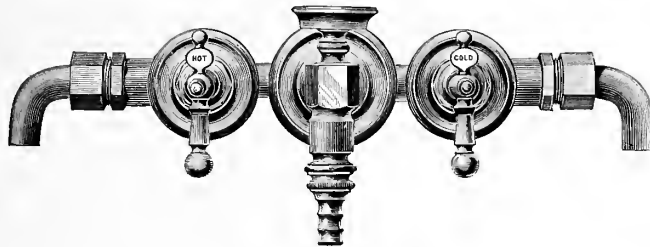


FIG. 768. COMBINATION BATH COCK, NUMBER 1.

FULLER COMBINATION BATH COCK, NUMBER 1.

NICKEL-PLATED	-----	EACH	12.00
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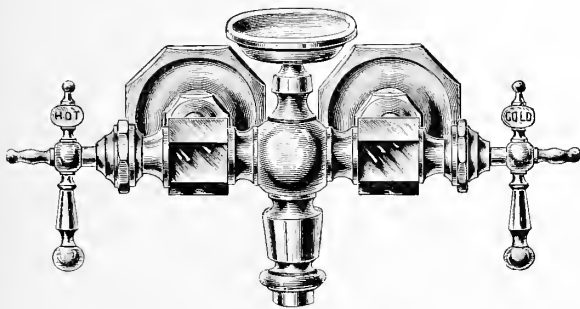


FIG. 769. COMBINATION BATH COCK, NUMBER 4 1/2.

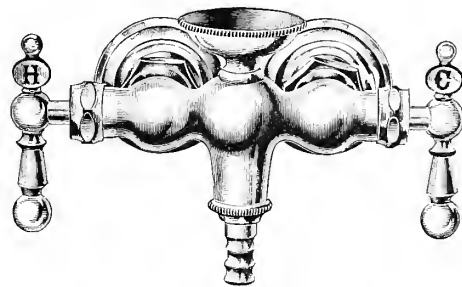


FIG. 770. COMBINATION BATH COCK, NUMBER 7.

FULLER COMBINATION BATH COCKS.—Figs. 769 and 770.

NUMBER	-----	4 1/2	7
NICKEL-PLATED	-----	EACH	12.00
			10.00

BOSTON SELF-CLOSING WORK.

FIG. 771. PLAIN BIBB, FOR LEAD PIPE.

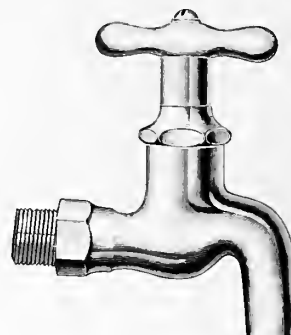


FIG. 772. PLAIN BIBB, FOR IRON PIPE.

BOSTON SELF-CLOSING PLAIN BIBBS.—Figs. 771 and 772.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
FIG. 771. FINISHED	PER DOZEN	21.00	24.00	27.00
FIG. 771. NICKEL-PLATED	PER DOZEN	25.00	28.00	31.00
FIG. 772. FINISHED	PER DOZEN	25.00	28.00	31.00
FIG. 772. NICKEL-PLATED	PER DOZEN	29.00	32.00	35.00

FIG. 773. BOSTON SELF-CLOSING
BASIN COCK.FIG. 774. BOSTON SELF-CLOSING
PANTRY COCK.**BOSTON SELF-CLOSING COCKS.—Figs. 773 and 774.**

FIGURE	773	774
NICKEL-PLATED	PER DOZEN 48.00	64.00

DOHERTY SELF-CLOSING WORK.

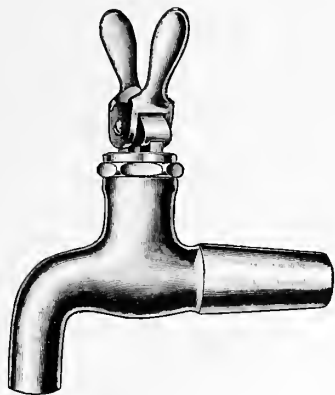


FIG. 775. PLAIN BIBB, FOR LEAD PIPE.

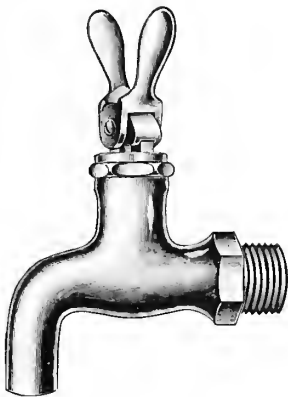


FIG. 776. PLAIN BIBB, FOR IRON PIPE.

DOHERTY SELF-CLOSING BIBBS.—Figs. 775 and 776.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{8}$
FIG. 775. FINISHED	PER DOZEN	24.00	27.00
FIG. 775. NICKEL-PLATED	PER DOZEN	30.00	33.00
FIG. 776. FINISHED	PER DOZEN	27.00	30.00
FIG. 776. NICKEL-PLATED	PER DOZEN	33.00	36.00



FIG. 777. BASIN COCK.

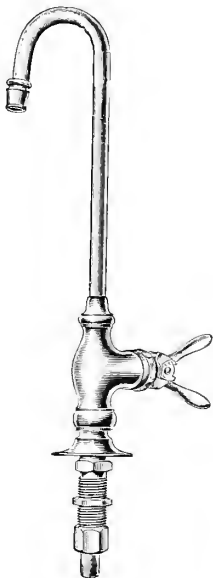


FIG. 778. PANTRY COCK.

DOHERTY SELF-CLOSING COCKS.—Figs. 777 and 778.

FIGURE	777	778
NICKEL-PLATED	PER DOZEN 48.00	69.00

SELF-CLOSING URINAL COCKS.

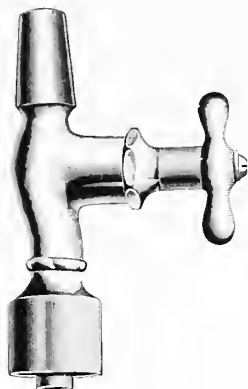


FIG. 779. URINAL COCK.

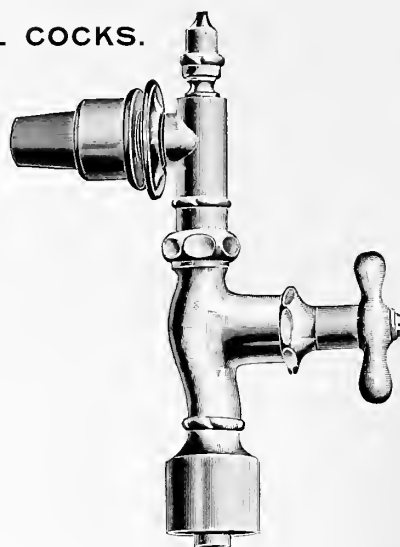


FIG. 780. URINAL COCK, WITH FLANGE AND THIMBLE.

BOSTON SELF-CLOSING URINAL COCKS.—Figs. 779 and 780.

FIGURE		779	780
FINISHED	PER DOZEN	36.00	58.00
NICKEL-PLATED	PER DOZEN	41.00	64.00
FOR IRON PIPE, ADD	PER DOZEN	4.00	-----

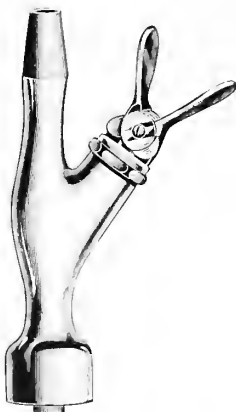


FIG. 781. URINAL COCK.

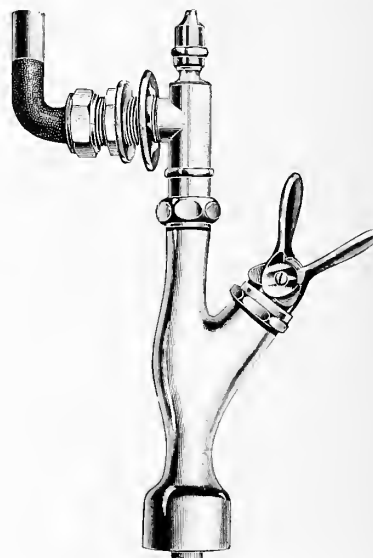


FIG. 782. URINAL COCK, WITH NUT AND BENT COUPLING, UNION, AND ADJUSTABLE FLANGE.

DOHERTY SELF-CLOSING URINAL COCKS.—Figs. 781 and 782.

FIGURE		781	782
FINISHED	PER DOZEN	35.00	66.00
NICKEL-PLATED	PER DOZEN	41.00	74.00

TELEGRAPH SELF-CLOSING WORK.

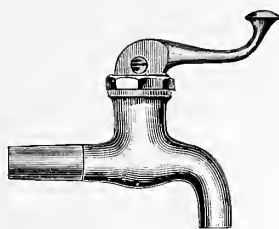


FIG. 783. PLAIN BIBB.

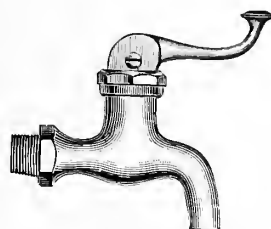
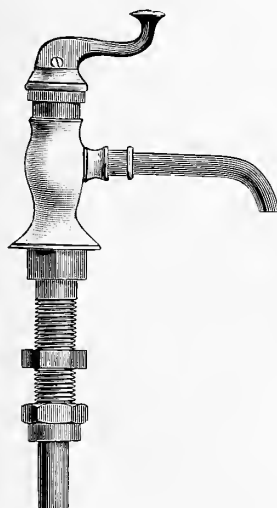
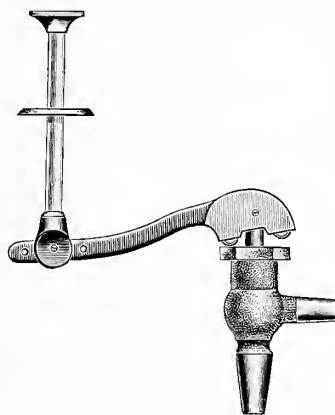
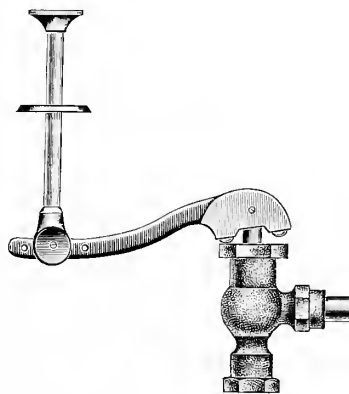


FIG. 784. PLAIN BIBB, FOR IRON PIPE.

TELEGRAPH PLAIN BIBBS.—Figs. 783 and 784.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
FIG. 783. FINISHED	PER DOZEN	15.00	17.00	20.00	26.00
FIG. 783. NICKEL-PLATED	PER DOZEN	17.00	19.50	22.50	28.50
FIG. 784. FINISHED	PER DOZEN	16.00	18.00	21.00	28.00
FIG. 784. NICKEL-PLATED	PER DOZEN	18.00	20.50	23.50	30.50

FIG. 786.
BASIN COCK.FIG. 787.
HOPPER COCK, FOR LEAD PIPE.FIG. 788.
HOPPER COCK, FOR IRON PIPE,
CALIFORNIA PATTERN.

TELEGRAPH BASIN COCKS.—Fig. 786.

FINISHED	PER DOZEN	24.00
NICKEL-PLATED	PER DOZEN	27.00

LONG SELF-CLOSING HOPPER COCKS.—Figs. 787 and 788.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
FIG. 787. FINISHED FLANGE AND HANDLE	PER DOZEN	24.00	26.00	30.00
FIG. 787. NICKEL-PLATED FLANGE AND HANDLE	PER DOZEN	26.00	28.50	32.50
FIG. 788. FINISHED FLANGE AND HANDLE	PER DOZEN	30.00	----	----
FIG. 788. NICKEL-PLATED FLANGE AND HANDLE	PER DOZEN	32.50	----	----

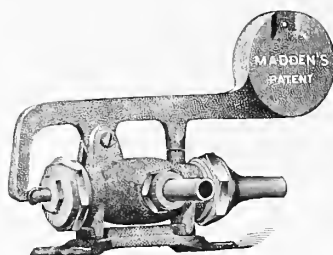


FIG. 789. CLOW IMPROVED HOPPER COCK.
(MADDEN PATENT.)

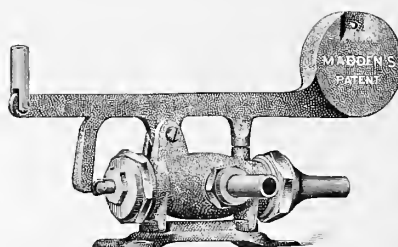


FIG. 790. CLOW IMPROVED CHECK AND WASTE.
(MADDEN PATENT.)

CLOW IMPROVED HOPPER AND STOP AND WASTE COCKS.—Figs. 789 and 790.

FIG. 789.	LEAD PIPE	.....	EACH	5.00
FIG. 789.	IRON PIPE	.....	EACH	5.50
FIG. 790.	LEAD PIPE	.....	EACH	4.50
FIG. 790.	IRON PIPE	.....	EACH	5.00

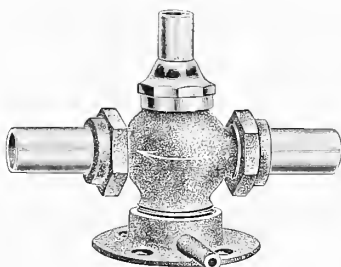


FIG. 791. HOPPER COCK. (BARTHOLOMEW'S PATENT.)

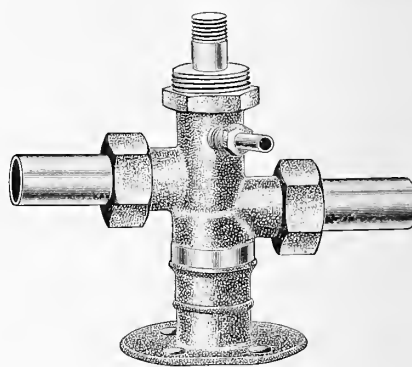


FIG. 792. HOPPER COCK. (JOHNSON PATENT.)

HOPPER COCKS.—Figs. 791 and 792.

FIG. 791.	BARTHOLOMEW	.....	EACH	2.15
FIG. 792.	JOHNSON	.....	EACH	2.25

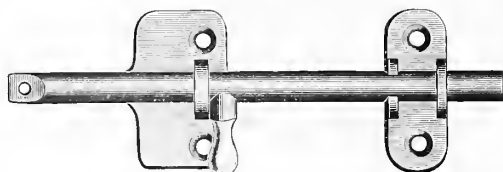


FIG. 793. GALVANIZED IRON LATCH.

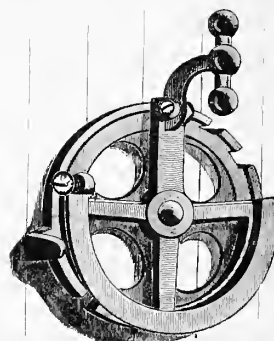


FIG. 794. ROTARY STOP AND WASTE LATCH.

LATCHES FOR STOP AND WASTE COCKS.—Figs. 793 and 794.

IRON LATCH, GALVANIZED	.....	EACH	.75
ROTARY LATCH, JAPANNED	.....	EACH	.75

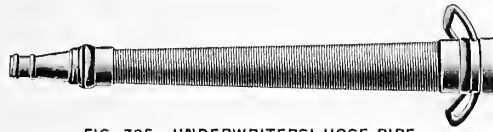


FIG. 795. UNDERWRITERS' HOSE PIPE.

UNDERWRITERS' HOSE PIPES.—Fig. 795.

SIZE	INCHES	2	2½	2½	2½
LENGTH	INCHES	20	24	30	36
WOUND AND PAINTED	EACH	9.00	11.00	12.00	15.00
PLAIN BRASS	EACH	7.50	9.50	11.00	13.50
WOUND AND PAINTED, WITHOUT HANDLES	EACH	6.50	8.50	10.00	12.50
RUBBER TUBE, SWIVEL HANDLES	EACH	---	---	15.00	18.00
LEATHER TUBES, SWIVEL HANDLES	EACH	---	---	---	18.00



FIG. 796. HOSE PIPE, TO TIE ON.



FIG. 797. HOSE PIPE, SCREW TIP.

HOSE PIPES, TO TIE ON.—Fig. 796.

SIZE	INCHES	¾	1
LENGTH	INCHES	4½	4½
PER DOZEN		3.50	4.00

HOSE PIPES, PLAIN, SCREW TIP.—Fig. 797.

SIZE	INCHES	¾	¾	1	1	1¼	1¼	1½	1½	2	2	2½	2½
LENGTH	INCHES	8	12	8	12	12	15	12	15	12	20	15	24
PER DOZEN		8.00	10.00	10.00	12.00	20.00	24.00	25.00	30.00	38.00	50.00	75.00	100.00

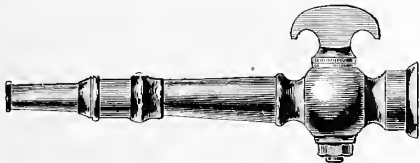


FIG. 798. HOSE PIPE, COCK LARGE END.

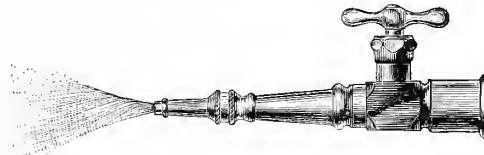


FIG. 799. FULLER HOSE PIPE.

HOSE PIPES.—Figs. 798 and 799.

SIZE	INCHES	¾	¾	1	1	1¼	1½	2
LENGTH	INCHES	8	12	8	12	20	20	20
FIG. 798	PER DOZEN	13.00	18.00	15.00	20.00	55.00	80.00	110.00
FIG. 799	PER DOZEN	18.00	---	30.00	---	---	---	---

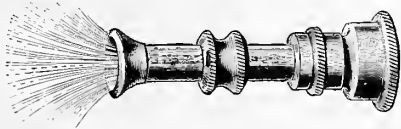


FIG. 800. GEM HOSE PIPE.

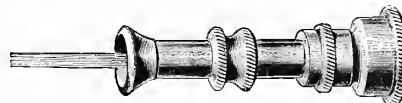


FIG. 801. SHOWING SOLID STREAM.

GEM HOSE PIPES.—Figs. 800 and 801.

SIZE	INCHES	¾
PER DOZEN		10.00

HOSE GOODS.



FIG. 802.
ONE 2½-IN. MALE, TWO 2½-IN.
FEMALE LOOSE COUPLINGS.

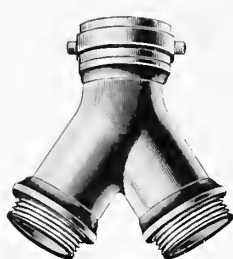


FIG. 803.
TWO 2½-IN. MALE, ONE 2½-IN.
FEMALE LOOSE COUPLING.

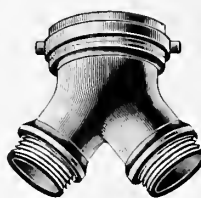


FIG. 804.
TWO 2½-IN. MALE, ONE 4-IN.
FEMALE LOOSE COUPLING.

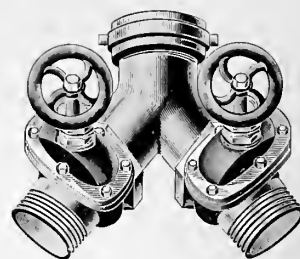


FIG. 805.
TWO 2½-IN. MALE, ONE 4-IN.
FEMALE LOOSE COUPLING, VALVES
ON 2½-IN. ENDS.

SIAMESE COUPLINGS.

FIGURE	802	803	804	805
EACH	13.00	10.00	14.00	30.00



FIG. 806. SUCTION HOSE STRAINER.

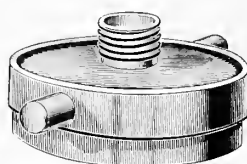


FIG. 807. FIRE HYDRANT HOSE REDUCER.

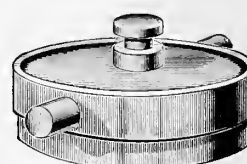


FIG. 808. HOSE CAP.

SUCTION HOSE STRAINERS (BRASS).—Fig. 806.

SIZE	INCHES	1½	2	2½	3	3½	4	4½	5	6
EACH		7.50	7.50	8.50	10.00	15.00	19.00	25.00	31.00	46.00

FIRE HYDRANT HOSE REDUCERS.—Fig. 807.

SIZE	INCHES	2½ x ¾	2½ x 1	2½ x 1¼	2½ x 1½	2½ x 2	3 x 2	3 x 2½
EACH		2.75	2.85	3.00	3.00	3.25	3.50	4.00

HOSE CAPS (BRASS).—Fig. 808.

SIZE	INCHES	¾	1	1¼	1½	2	2½
EACH		.35	.50	.70	.90	1.25	2.00

HOSE GOODS.



FIG. 809. HOSE COUPLING.



FIG. 810. STEAM HOSE COUPLING.



FIG. 811. HOSE MENDER.

HOSE COUPLINGS.—Fig. 809.

SIZE - - - - - INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
PER DOZEN - - - - -	2.40	2.40	4.40	10.00	14.00	24.00	48.00	76.00	-----	-----	-----	-----
IRON PIPE - - - - - PER DOZEN	2.65	2.65	4.65	10.50	15.00	26.00	50.00	79.00	120.00	150.00	250.00	450.00
FEMALE HALF HOSE-PIPE THREAD - PER DOZEN	1.80	1.80	3.00	7.20	9.60	16.20	-----	-----	-----	-----	-----	-----
FEMALE HALF IRON-PIPE THREAD - PER DOZEN	1.80	1.80	3.25	7.80	10.80	17.40	-----	-----	-----	-----	-----	-----

STEAM HOSE COUPLINGS.—Fig. 810.

SIZE - - - - - INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
EACH - - - - -	1.25	1.25	1.50	2.00	2.50	3.50	6.00

HOSE MENDERS.—Fig. 811.

SIZE - - - - - INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
IRON, COPPERED - - - - - PER DOZEN	1.20	1.20	2.00



FIG. 812. HOSE STRAP.

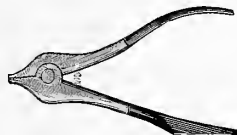


FIG. 813. HOSE STRAP FASTENER.



FIG. 814. HOSE CLAMP.

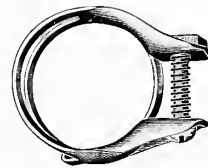


FIG. 815. SHERMAN HOSE CLAMP.

HOSE STRAPS AND FASTENERS.—Figs. 812 and 813.

NUMBER - - - - -	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
SIZE - - - INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$	2	2	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{2}$
LENGTH - INCHES	$3\frac{3}{8}$	$3\frac{3}{8}$	$4\frac{1}{8}$	$4\frac{1}{8}$	5	$5\frac{3}{8}$	6	$6\frac{3}{8}$	$6\frac{3}{8}$	$7\frac{1}{8}$	$7\frac{1}{8}$	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10	$10\frac{1}{2}$	11
PER DOZEN - - -	.40	.40	.60	.60	.80	.80	1.00	1.00	1.20	1.20	1.40	1.40	1.60	1.60	1.80	1.80	2.00	2.00

Fig. 813. Hose Strap Fastener, $\frac{1}{2}$ to 1 inch, each 50 cents; $1\frac{1}{4}$ to $2\frac{1}{2}$ inch, each 75 cents.

HOSE CLAMPS.—Figs. 814 and 815.

SIZE - - - - - INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FIG. 814 - - - - - PER DOZEN	1.50	1.50	2.00	2.50	3.00	4.00	7.00	10.00
FIG. 815 - - - - - PER DOZEN	1.50	1.50	2.00	2.50	3.00	-----	-----	-----

FIG. 816.
HOSE BUSHING.FIG. 817.
HOSE REDUCER.FIG. 818.
HOSE NIPPLE, MALE.FIG. 819.
HOSE NIPPLE, FEMALE.FIG. 820.
HOSE BIBB END.**HOSE BUSHINGS AND REDUCERS.—Figs. 816 and 817.**

SIZE	INCHES	1 x $\frac{3}{4}$	1 $\frac{1}{4}$ x 1	1 $\frac{1}{2}$ x $\frac{3}{4}$	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	1 $\frac{1}{2}$ x 1	1 $\frac{1}{2}$ x $\frac{3}{4}$	2 x 1 $\frac{1}{2}$	2 x 1 $\frac{1}{4}$
FIGS. 816 AND 817	PER DOZEN	6.50	10.00	10.00	12.00	12.00	12.00	18.00	18.00

Hose Bushings and Reducers have hose thread on both Male and Female ends.

HOSE NIPPLES AND HOSE BIBB ENDS.—Figs. 818, 819, and 820.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
FIGS. 818 AND 819	PER DOZEN	3.50	3.50	5.00	9.00	10.00	14.00	28.00	40.00
FIG. 820	PER DOZEN	2.50	2.50	3.50	6.00	8.00	15.00	24.00	-----

Male Hose Nipples have hose thread on one end and iron-pipe thread on other end; except 3-inch, both ends for iron pipe. Female Hose Nipples have hose thread on Male end; iron-pipe thread on Female end.

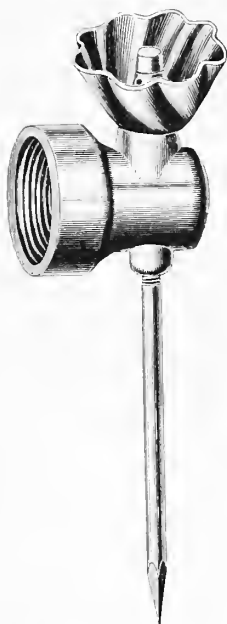
FIG. 821.
IDEAL GROUND SPRINKLER.FIG. 822. IDEAL SPRINKLER.
TO SCREW ON $\frac{1}{2}$ -INCH PIPE.

FIG. 823. HOSE SPRINKLER.

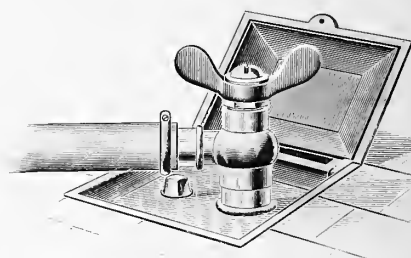


FIG. 824. MILLER SWIVEL.

IDEAL SPRINKLERS.—Figs. 821 and 822.

FIG. 821. FOR $\frac{3}{4}$ -INCH HOSE	EACH	.75
FIG. 822. FOR $\frac{1}{2}$ -INCH IRON PIPE	EACH	.50

HOSE SPRINKLERS.—Fig. 823.

DIAMETER	INCHES	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3
SIZE THREAD	INCHES	$\frac{3}{4}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$
PER DOZEN		4.50	5.25	6.00	9.00

MILLER HOSE SWIVEL CONNECTIONS.—Fig. 824.

SIZE	INCHES	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
EACH		1.00	1.50	3.25	5.00	6.50

HOSE GOODS.

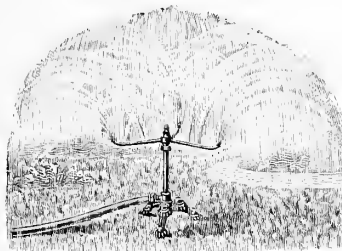


FIG. 825. FOUNTAIN LAWN SPRINKLER.

FOUNTAIN LAWN SPRINKLERS.—Fig. 825.

FINISHED BRASS	-----	EACH	2.50
NICKEL-PLATED	-----	EACH	3.50

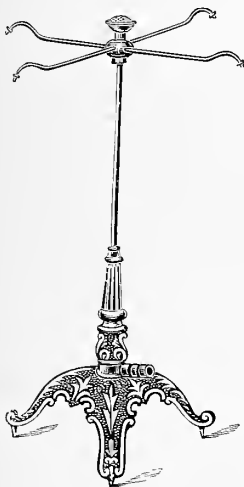


FIG. 826. FOUR-ARM.

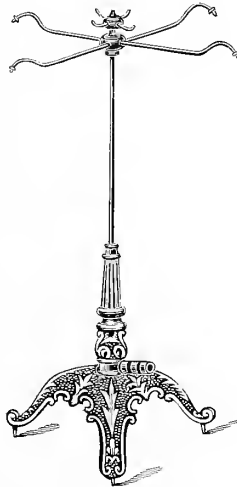


FIG. 827. EIGHT-ARM.

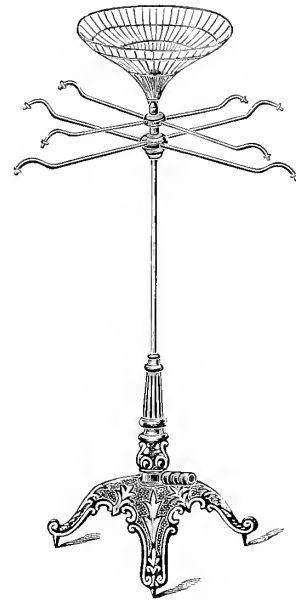


FIG. 828. EIGHT-ARM, WITH BALL AND BASKET.

STANDARD LAWN SPRINKLERS.

FOUR-ARM	-----	EACH	6.50
EIGHT-ARM	-----	EACH	7.50
FOUR-ARM, WITH BALL AND BASKET	-----	EACH	13.00
EIGHT-ARM, WITH BALL AND BASKET	-----	EACH	14.00

PARTS FOR STANDARD LAWN SPRINKLERS.

TOPS ONLY, FOR FOUR OR EIGHT ARM SPRINKLER	-----	EACH	2.00
STAND ONLY, FOR FOUR OR EIGHT ARM SPRINKLER	-----	EACH	1.00
LONG ARM	-----	EACH	.35
SHORT ARM	-----	EACH	.25
BASKET	-----	EACH	.75
BALL	-----	EACH	.75

LAWN SPRINKLERS.

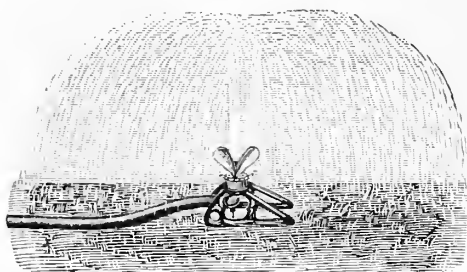


FIG. 829. CYCLONE.
CHANGE TO $\frac{1}{2}$ CIRCLE BY TURNING THE KNOB.

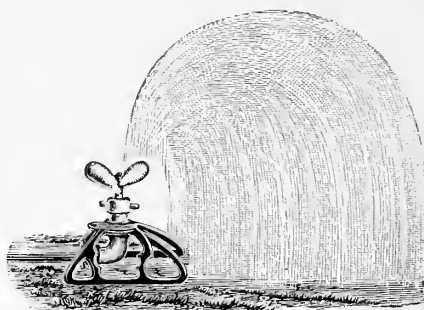


FIG. 829½. CYCLONE.
ADJUST TO CIRCLE BY TURNING THE KNOB.

CYCLONE ADJUSTABLE LAWN SPRINKLERS.—Figs. 829 and 829½.

EACH	1.25
------	------



FIG. 830. CACTUS,
TO LIE FLAT ON GROUND.



FIG. 831. CACTUS,
ON SLED.

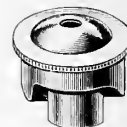


FIG. 832. CACTUS
HEAD, TO SCREW ON PIPE.

CACTUS SPRINKLERS.—Figs. 830, 831, and 832.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 830. CACTUS	EACH	---	1.00	1.50
FIG. 831. CACTUS	EACH	---	1.50	2.00
FIG. 832. CACTUS HEAD	EACH	.75	1.00	1.50



FIG. 833.
JAPANESE SPRINKLER.



FIG. 834.
JAPANESE HEAD, TO SCREW ON PIPE.

JAPANESE SPRINKLERS.—Figs. 833 and 834.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 833. JAPANESE	EACH	---	1.50	2.00
FIG. 834. JAPANESE HEAD	EACH	.75	---	---

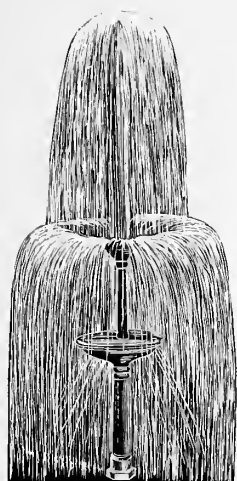


FIG. 835. INVERTED ROSE.



FIG. 836. UMBRELLA.

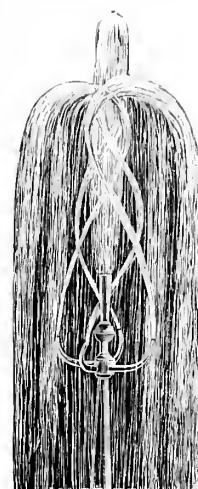


FIG. 837. FOUR-ARM REVOLVING AND ROSE.

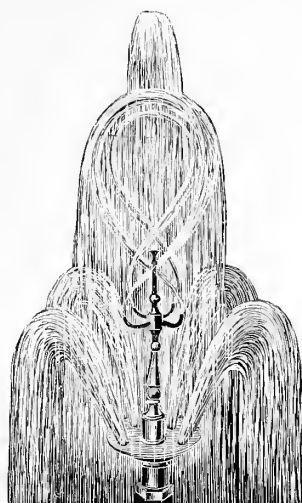
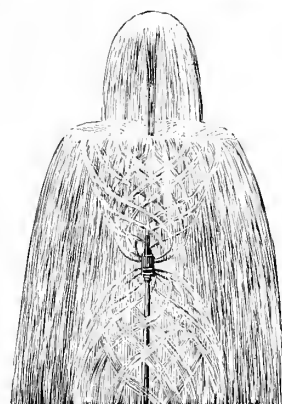
FIG. 838. UMBRELLA AND
FOUR-ARM REVOLVING.FIG. 839. FOUR-ROSE, FOUR-ARM
REVOLVING AND ROSE.

FIG. 840. COMBINATION ROSE.



FIG. 841. EIGHT PRONGS.

FIG. 842. EIGHT-ARM DOUBLE
REVOLVING AND ROSE.

FOUNTAIN JETS.

FIGURE	835	836	837	838	839	840	841	842
1/8-INCH	----	6.00	7.50	----	----	----	----	----
1/4-INCH	----	6.75	9.00	----	----	7.00	4.00	12.00
1/2-INCH	13.00	7.75	10.00	16.00	16.00	8.00	4.75	15.00

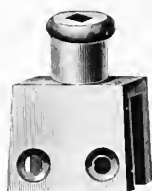
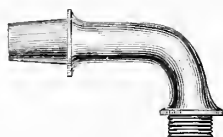
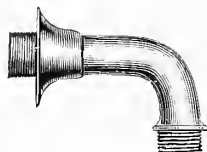
FIG. 843.
HYDRANT CLAMP FOR ROD.FIG. 844.
HYDRANT CLAMP FOR IRON PIPE.FIG. 845.
HYDRANT SOCKET.FIG. 846.
TRIANGULAR GUIDE**HYDRANT CLAMPS, SOCKETS, AND GUIDES.—Figs. 843, 844, 845, and 846.**

FIG. 843.	BRASS FOR $\frac{1}{2}$ AND $\frac{3}{4}$ -INCH COCKS	PER DOZEN	2.50
FIG. 843.	BRASS FOR $\frac{3}{4}$ AND 1-INCH COCKS	PER DOZEN	3.50
FIG. 843.	MALLEABLE IRON	PER POUND	.15
FIG. 844.	MALLEABLE IRON, TAPPED FOR $\frac{3}{4}$ PIPE	PER POUND	.18
FIG. 844.	MALLEABLE IRON, TAPPED FOR $\frac{1}{2}$ PIPE	PER POUND	.20
FIG. 845.	BRASS	PER DOZEN	2.00
FIG. 845.	MALLEABLE IRON	PER POUND	.15
FIG. 846.	BRASS	PER DOZEN	8.00

FIG. 847.
HYDRANT NOZZLE,
FOR LEAD PIPE.FIG. 848.
HYDRANT NOZZLE,
FOR IRON PIPE.FIG. 849.
STREET WASHER SCREW,
FOR LEAD PIPE.FIG. 850.
STREET WASHER SCREW,
FOR IRON PIPE.**HYDRANT NOZZLES AND STREET WASHER SCREWS.—Figs. 847, 848, 849, and 850.**

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 847. BRASS	PER DOZEN	7.00	8.50	10.00
FIG. 848. BRASS	PER DOZEN	8.00	9.50	11.00
FIG. 849. BRASS	PER DOZEN	5.50	6.00	8.50
FIG. 850. BRASS	PER DOZEN	6.00	7.00	10.00



FIG. 851. STREET WASHER KEY.



FIG. 852. HYDRANT KEY.

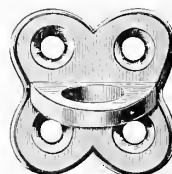


FIG. 853. ROD REST.



FIG. 854. ROD HANDLE.

FIG. 851.	MALLEABLE IRON	PER POUND	.15
FIG. 851.	SMALL PATTERN, FOR IRON STREET WASHER	EACH, NET	.15
FIG. 852.	BRASS	PER DOZEN	5.00
FIG. 852.	MALLEABLE IRON	PER POUND	.15
FIG. 853.	CAST IRON	PER DOZEN	.96
FIG. 854.	CAST IRON	PER DOZEN	1.25
FIG. 854.	MALLEABLE IRON	PER DOZEN	2.00
FIG. 854.	BRASS FINISHED	EACH	.50



FIG. 855. FOR WOOD.



FIG. 856.



FIG. 857. FOR COCK HOLE.



FIG. 858.

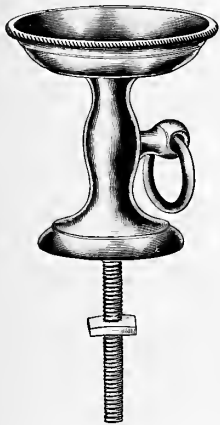


FIG. 859. JEWEL CUP.



FIG. 860. JEWEL CUP.

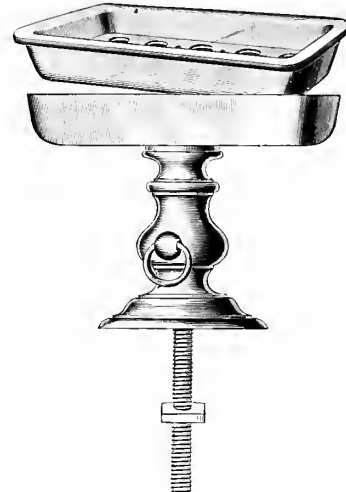


FIG. 861. SOAP CUP.

CHAIN STAYS, NICKEL-PLATED.

FIGURE - - - - -	855	856	857	858	859	860	861
PER DOZEN - - - - -	2.50	3.75	4.25	6.50	9.00	12.00	33.00



FIG. 862. CAP TO COVER COCK HOLE
IN SLABS.

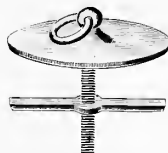


FIG. 863. CAP TO COVER COCK HOLE OR OVERFLOW
IN BATH OR LAUNDRY TUBS.



FIG. 864. SLAB SCREW
AND WASHER.

CAPS TO COVER COCK HOLES AND SLAB SCREWS.

FIGURE - - - - -	862	863	864	864	864
SIZE - - - - - INCHES	----	----	1½	2	2½
PER DOZEN - - - - -	4.50	9.00	2.00	2.50	3.00

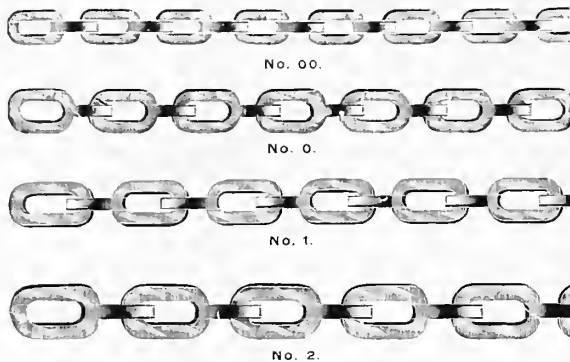


FIG. 865. SAFETY CHAIN.

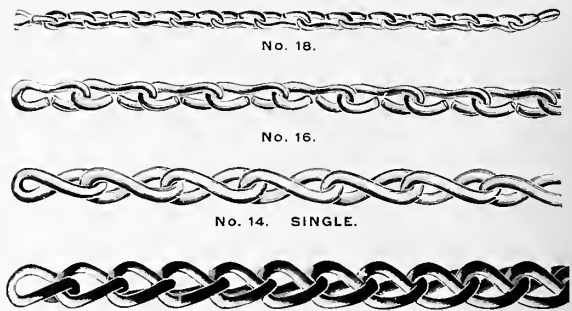


FIG. 866. JACK CHAIN.

SAFETY AND JACK CHAINS.—Figs. 865 and 866.

NUMBER		00	0	1	2	18	16	14 SINGLE	14 DOUBLE
BRASS	PER PACKAGE	2.25	2.50	3.12	4.68	1.00	1.25	1.70	3.00
PLATED	PER PACKAGE	3.00	3.25	4.08	5.75	1.60	2.10	2.85	4.50

Twelve yards of chain in each package.

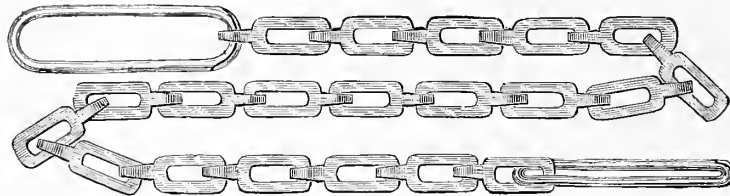


FIG. 867. CHAIN AND SNAPS FOR BASIN, BATH, AND WASH TRAY.

FIG. 867		BRASS	PLATED
FOR BASINS, 16 INCHES LONG	PER DOZEN	1.85	1.25
FOR BATHS AND WASH TRAYS, 27 INCHES LONG	PER DOZEN		2.35



FIG. 868. BASIN CLAMP.

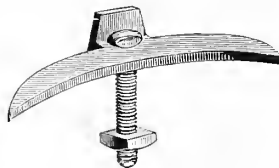


FIG. 869. BASIN CLAMP.

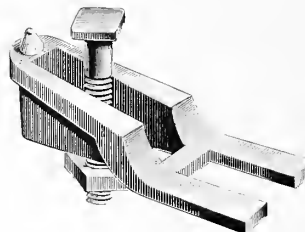


FIG. 870. McVEY BASIN CLAMP.

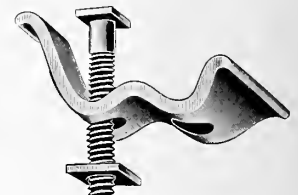
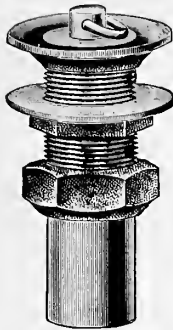
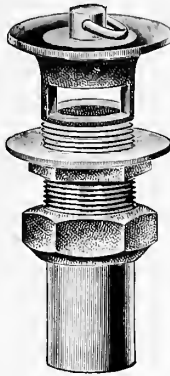
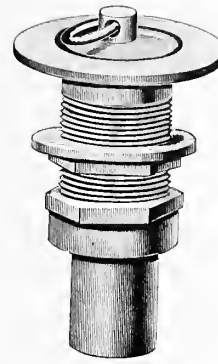


FIG. 871. MAGIC BASIN CLAMP.

FIGURE	868	869	870	871
PER DOZEN	1.50	2.00	2.50	2.50

PLUGS WITH RUBBER STOPPERS.

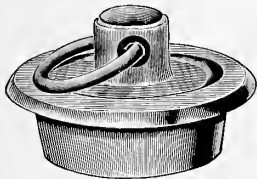
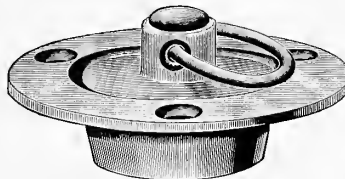
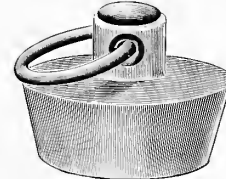
FIG. 872.
BASIN PLUG, COMMON OVERFLOW.FIG. 873.
BASIN PLUG, PATENT OVERFLOW.FIG. 874.
SLATE OR SOAPSTONE TRAY PLUG.

BASIN PLUGS, WITH RUBBER STOPPERS.—Figs. 872 and 873.

SIZE	INCHES	1	1 $\frac{1}{4}$
FIG. 872. BRASS	PER DOZEN	4.50	7.50
FIG. 872. NICKEL-PLATED	PER DOZEN	5.50	9.00
FIG. 873. BRASS	PER DOZEN	5.00	9.00
FIG. 873. NICKEL-PLATED	PER DOZEN	6.00	10.50

WASH-TRAY PLUGS, WITH RUBBER STOPPERS.—Fig. 874.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
FIG. 874. BRASS	PER DOZEN	8.00	9.00	13.50	20.00
FIG. 874. NICKEL-PLATED	PER DOZEN	9.00	10.50	15.00	22.50

FIG. 875.
BATH OR SINK PLUG, WITH RUBBER STOPPER.FIG. 876.
WASH-TRAY PLUG, WITH RUBBER STOPPER.FIG. 877.
RUBBER STOPPER.

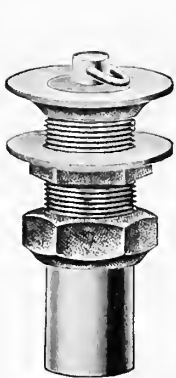
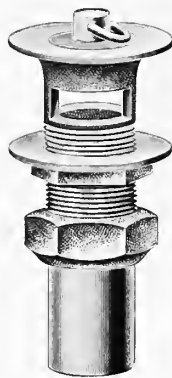
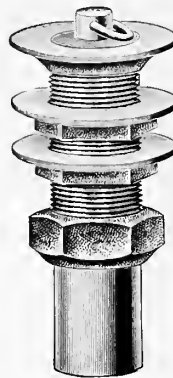
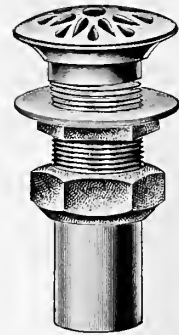
BATH, SINK, AND WASH-TRAY PLUGS, WITH RUBBER STOPPERS.—Figs. 875 and 876.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
FIG. 875. BRASS	PER DOZEN	2.00	2.25	3.50	5.00
FIG. 875. NICKEL-PLATED	PER DOZEN	2.50	2.75	4.00	6.00
FIG. 876. BRASS	PER DOZEN	2.50	3.25	4.00	6.00
FIG. 876. NICKEL-PLATED	PER DOZEN	3.50	4.25	5.00	7.50

RUBBER STOPPERS.—Fig. 877.

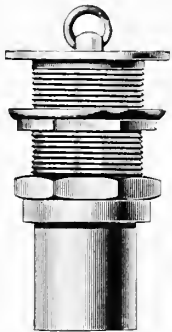
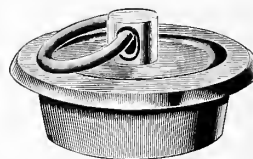
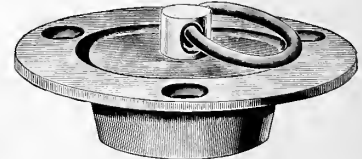
SIZE	INCHES	$\frac{7}{8}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
FIG. 877	PER DOZEN	1.00	1.00	1.00	1.25	1.75	2.50

PLUGS WITH METAL STOPPERS.

FIG. 878.
BASIN PLUG, COMMON OVERFLOW.FIG. 879.
BASIN PLUG, PATENT OVERFLOW.FIG. 880.
PLUG FOR IRON BASIN.FIG. 881.
BASIN GRATE.

BASIN PLUGS, WITH IRON STOPPERS AND BASIN GRATES.

FIGURE		878	879	880	881
POLISHED BRASS	PER DOZEN	8.00	9.00	20.00	-----
NICKEL-PLATED	PER DOZEN	8.50	9.50	22.00	12.00

FIG. 882.
SLATE OR SOAPSTONE SINK PLUG.FIG. 883.
BATH OR SINK PLUG, FOR
IRON PIPE.FIG. 884.
BATH OR SINK PLUG.FIG. 885.
WASH TRAY PLUG.

SINK OR BATH PLUGS, WITH METAL STOPPERS.—Figs. 882 and 883.

SIZE	INCHES	1	1 1/4	1 1/2	2
FIG. 882. POLISHED BRASS	PER DOZEN	15.00	16.00	26.00	40.00
FIG. 882. NICKEL-PLATED	PER DOZEN	17.00	19.00	29.00	44.00
FIG. 883. POLISHED BRASS	PER DOZEN	15.00	18.00	24.00	32.00
FIG. 883. NICKEL-PLATED	PER DOZEN	16.00	20.00	26.00	34.00

BATH AND WASH TRAY PLUGS, WITH METAL STOPPERS.—Figs. 884 and 885.

SIZE	INCHES	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
FIG. 884. POLISHED BRASS, PER DOZEN		2.00	2.50	3.00	4.00	7.00	15.00	18.00	36.00
FIG. 884. NICKEL-PLATED, PER DOZEN		2.50	3.00	3.50	4.50	8.00	17.00	21.00	40.00
FIG. 885. POLISHED BRASS, PER DOZEN		-----	-----	6.00	7.00	10.00	17.00	22.00	44.00
FIG. 885. NICKEL-PLATED, PER DOZEN		-----	-----	7.50	8.75	13.00	20.00	25.00	-----

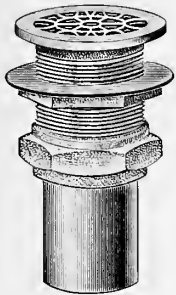


FIG. 886. GRATE FOR EARTHEN KITCHEN SINKS.

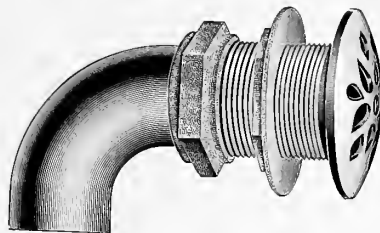


FIG. 887. OVERFLOW GRATE FOR EARTHEN WASH TRAY.

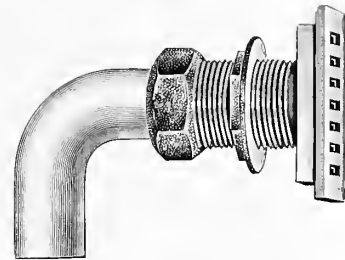


FIG. 888. OVERFLOW GRATE FOR EARTHEN PANTRY SINK.

GRATES FOR EARTHEN SINKS.—Fig. 886.

		KITCHEN SINK	SLOP SINK
POLISHED BRASS	PER DOZEN	48.00	50.00
NICKEL-PLATED	PER DOZEN	51.00	53.00

OVERFLOW GRATES FOR EARTHEN WASH TRAYS AND SINKS.—Figs. 887 and 888.

FIGURE		887	888
POLISHED BRASS	PER DOZEN	36.00	24.00
NICKEL-PLATED	PER DOZEN	39.00	27.00

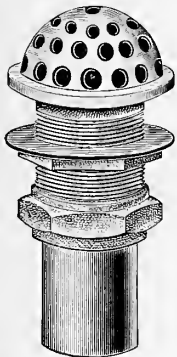


FIG. 889. SAFE WASTE GRATE FOR LEAD PIPE.

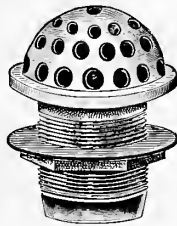


FIG. 890. SAFE WASTE GRATE FOR IRON PIPE.

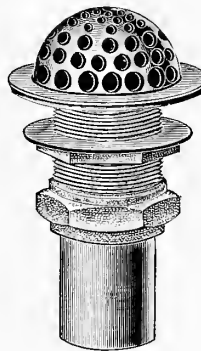


FIG. 891. RAISED STRAINER FOR URINAL TROUGH.

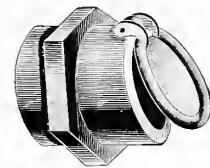


FIG. 892. BRASS SAFE WASTE VALVE.

SAFE WASTE GRATES AND RAISED STRAINERS.—Figs. 889, 890, and 891.

FIGURE		889	890	891
NICKEL-PLATED	EACH	1.25	.75	4.50

BRASS SAFE WASTE VALVES.—Fig. 892.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FINISHED	EACH	1.50	1.75	2.25	2.75	3.50



FIG. 893. DRIP CUP.



FIG. 894. BRASS BELL TRAP WITH STRAINER.

DRIP CUP AND COUPLINGS, FOR MARBLE DRINKING SLABS.—Fig. 893.

POLISHED BRASS	-----	EACH	2.00
NICKEL-PLATED	-----	EACH	2.50

BRASS BELL TRAP WITH STRAINER, FOR URINAL STALL BASE.—Fig. 894.

ROUGH, FINISHED FLANGE AND STRAINER	-----	EACH	3.50
ROUGH, NICKEL-PLATED FLANGE AND STRAINER	-----	EACH	4.00



FIG. 895. RAISED STRAINER WITH FLANGE.

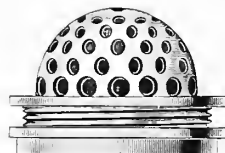


FIG. 896. RAISED STRAINER WITH TRAP SCREW.

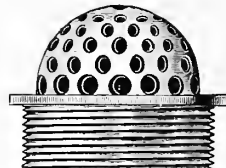


FIG. 897. RAISED STRAINER, FOR IRON PIPE.



FIG. 898. CONVEX STRAINER.



FIG. 899. FANCY STRAINER.

RAISED STRAINERS.—Fig. 895.

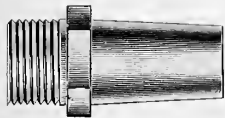
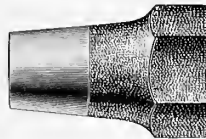
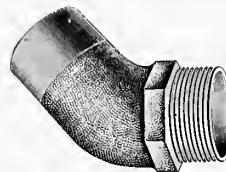
DIAMETER OF FLANGE	INCHES	2	3	3½	4
FIG. 895. FINISHED	PER DOZEN	8.00	12.00	18.00	24.00
FIG. 895. NICKEL-PLATED	PER DOZEN	10.00	15.00	22.00	30.00

RAISED STRAINERS.—Figs. 896 and 897.

SIZE	INCHES	2	2½	3	4
FIG. 896. FINISHED	PER DOZEN	15.00	21.00	30.00	48.00
FIG. 896. NICKEL-PLATED	PER DOZEN	17.00	24.00	34.00	54.00
FIG. 897. FINISHED	PER DOZEN	13.00	18.00	26.00	44.00
FIG. 897. NICKEL-PLATED	PER DOZEN	15.00	21.00	30.00	50.00

CONVEX AND FANCY STRAINERS.—Figs. 898 and 899.

SIZE	INCHES	¾	1	1¼	1½	2	2½	3	4	5	6
FANCY, FINISHED	PER DOZEN	.60	.85	1.20	1.45	1.80	2.40	3.00	4.80	9.00	12.00
CONVEX, FINISHED	PER DOZEN	.95	1.40	1.80	2.40	3.00	3.60	4.20	6.00	12.00	15.00

FIG. 900.
SOLDERING NIPPLE, MALE.FIG. 901.
SOLDERING NIPPLE, FEMALE.FIG. 902.
BENT SOLDERING NIPPLE, MALE.FIG. 903.
BENT SOLDERING NIPPLE,
FEMALE.**SOLDERING NIPPLES.—Figs. 900, 901, 902, and 903.**

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FIGS. 900, 901	PER DOZEN	1.75	2.25	2.50	3.00	5.00	7.50	10.00	14.00	20.00	28.00
FIGS. 902, 903	PER DOZEN	2.75	3.25	4.50	5.50	9.00	12.00	16.00	22.00	---	---

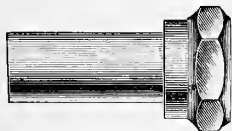


FIG. 904. SOLDERING UNION, STRAIGHT.

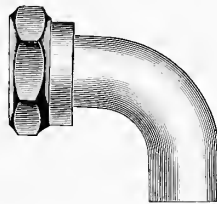


FIG. 905. SOLDERING UNION, BENT.

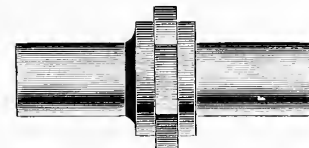
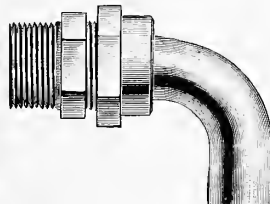
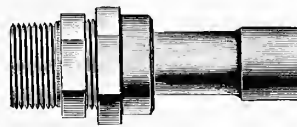
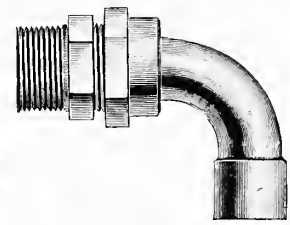


FIG. 906. PLAIN COUPLING.

SOLDERING UNIONS AND PLAIN COUPLINGS.—Figs. 904, 905, and 906.

SIZE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIG. 904	PER DOZEN	2.25	2.75	3.25	---	4.00	6.00	8.50	12.00	18.00
FIG. 905	PER DOZEN	3.00	3.75	4.75	---	6.50	9.00	11.50	17.00	24.00
FIG. 906	PER DOZEN	4.00	4.50	5.00	6.50	8.00	12.90	18.00	24.00	36.00

FIG. 907.
STRAIGHT BOILER COUPLING.FIG. 908.
BENT BOILER COUPLING.FIG. 909. STRAIGHT BOILER
COUPLING, FOR IRON PIPE.FIG. 910. BENT BOILER
COUPLING, FOR IRON PIPE.**BOILER COUPLINGS.—Figs. 907, 908, 909, and 910.**

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 907. PLAIN FACE	PER DOZEN	7.50	8.00	11.00
FIG. 907. GROUND FACE	PER DOZEN	8.50	9.00	12.50
FIG. 908. PLAIN FACE	PER DOZEN	8.50	9.00	12.00
FIG. 908. GROUND FACE	PER DOZEN	9.50	10.00	13.50
PLAIN (THREE BENT, ONE STRAIGHT)	PER SET	---	2.50	---
GROUND (THREE BENT, ONE STRAIGHT)	PER SET	---	2.75	---
FIG. 909. PLAIN FACE	PER DOZEN	---	12.50	15.50
FIG. 909. GROUND FACE	PER DOZEN	---	13.50	17.00
FIG. 910. PLAIN FACE	PER DOZEN	---	13.50	16.50
FIG. 910. GROUND FACE	PER DOZEN	---	14.50	18.00

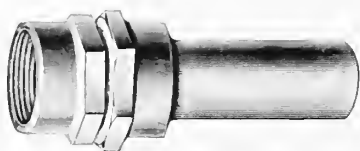


FIG. 911. STRAIGHT WATER-BACK COUPLING

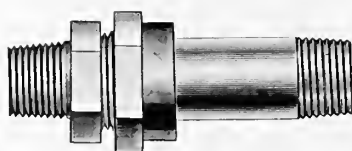


FIG. 912. STRAIGHT WATER-BACK COUPLING, FOR IRON PIPE.

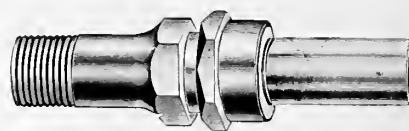


FIG. 913. STRAIGHT WATER-BACK COUPLING, WITH LONG SPUD.

WATER-BACK COUPLINGS.—Figs. 911, 912, and 913.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 911. PLAIN FACE	PER DOZEN	6.50	7.00	10.00
FIG. 911. GROUND FACE	PER DOZEN	7.50	8.00	11.50
FIG. 912. PLAIN FACE	PER DOZEN	7.50	9.00	13.00
FIG. 912. GROUND FACE	PER DOZEN	8.50	10.00	14.50
FIG. 913. STRAIGHT	PER DOZEN	----	10.00	----

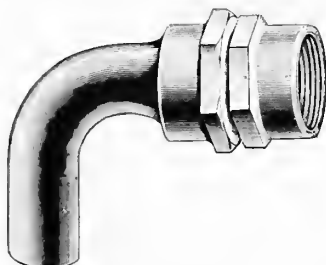


FIG. 914. BENT WATER-BACK COUPLING.

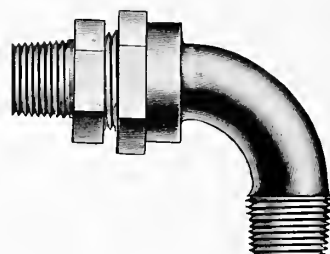


FIG. 915. BENT WATER-BACK COUPLING, FOR IRON PIPE.

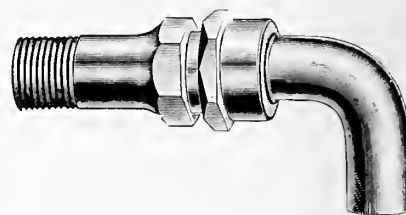


FIG. 916. BENT WATER-BACK COUPLING, WITH LONG SPUD.

WATER-BACK COUPLINGS.—Figs. 914, 915, and 916.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1
FIG. 914. PLAIN FACE	PER DOZEN	7.50	8.00	11.00
FIG. 914. GROUND FACE	PER DOZEN	8.50	9.00	12.50
FIG. 915. PLAIN FACE	PER DOZEN	8.50	10.00	14.00
FIG. 915. GROUND FACE	PER DOZEN	9.50	11.00	15.50
FIG. 916. BENT	PER DOZEN	----	11.00	----

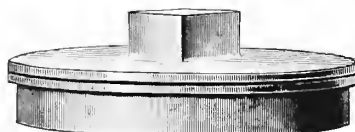


FIG. 917. TRAP SCREW.



FIG. 918. TRAP SCREW, WITH SOCKET TO SET FLUSH WITH FLOOR.

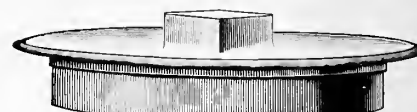


FIG. 919. TRAP SCREW, WITH PROJECTING FLANGE FOR MARBLE OR TILE FLOOR.

TRAP SCREWS.—Figs. 917, 918, and 919.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
FIG. 917. FINISHED	PER DOZEN	1.80	2.25	2.50	3.00	4.00	7.00	10.00	15.00	18.00	20.00	27.50	42.50
FIG. 917. NICKEL-PLATED	PER DOZEN	----	----	----	----	----	11.00	15.00	20.00	23.50	26.00	36.50	54.50
FIG. 918. FINISHED	PER DOZEN	----	----	----	----	----	7.00	10.00	15.00	18.00	20.00	----	----
FIG. 918. NICKEL-PLATED	PER DOZEN	----	----	----	----	----	11.00	15.00	20.00	23.50	26.00	----	----
FIG. 919. FINISHED	PER DOZEN	----	----	----	----	----	11.00	14.50	20.00	23.50	26.00	35.50	----
FIG. 919. NICKEL-PLATED	PER DOZEN	----	----	----	----	----	15.50	19.50	26.00	30.50	35.00	47.50	----

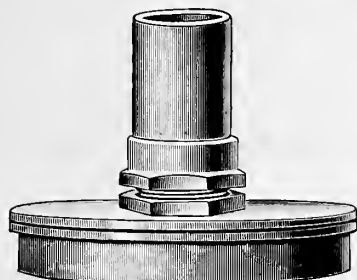


FIG. 920.
TRAP SCREW WITH STRAIGHT COUPLING.

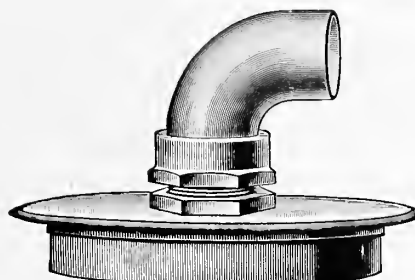


FIG. 921.
TRAP SCREW WITH BENT COUPLING AND PROJECTING FLANGE.

TRAP SCREWS.—Fig. 920.

SIZE	INCHES	3	3½	4	5
FINISHED	PER DOZEN	21.00	25.00	28.00	35.50
NICKEL-PLATED	PER DOZEN	28.50	33.50	38.00	50.50

Add to list for Bent Coupling instead of Straight, per dozen, \$2.00.

TRAP SCREWS WITH BENT COUPLING AND PROJECTING FLANGE.—Fig. 921.

SIZE	INCHES	3	3½	4	5
FINISHED	PER DOZEN	28.00	32.50	36.00	45.50
NICKEL-PLATED	PER DOZEN	36.50	42.00	48.00	61.50

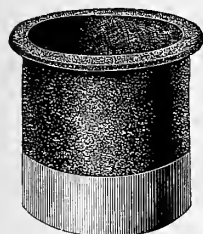


FIG. 922.
BRASS FERRULE.



FIG. 923.
BRASS FERRULE WITH HUB.

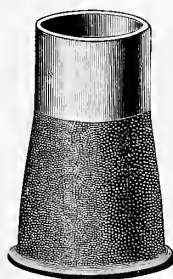


FIG. 924.
BRASS FERRULE,
REDUCING.

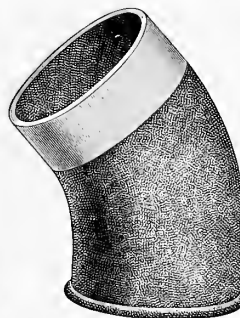


FIG. 925.
BRASS FERRULE, BENT.

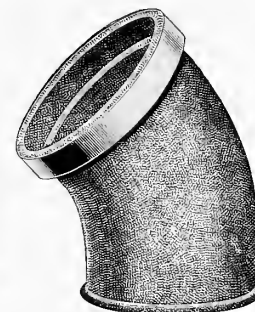


FIG. 926.
BRASS FERRULE, BENT,
WITH HUB.

BRASS FERRULES.—Figs. 922 and 923.

SIZE	INCHES	2	3	4	5	6
FIG. 922	PER DOZEN	5.00	9.00	11.00	27.00	36.00
FIG. 923	PER DOZEN	8.00	---	16.00	---	---

BRASS FERRULES.—Fig. 924.

SIZE	INCHES	2 x 1¼	2 x 1½
PER DOZEN		5.00	5.00

BRASS FERRULES, BENT.—Figs. 925 and 926.

SIZE	INCHES	2	4
PER DOZEN		12.00	24.00



FIG. 927.
BRASS FERRULE, WITH TRAP SCREW.



FIG. 928.
BRASS FERRULE, WITH STRAIGHT
VENT COUPLING.



FIG. 929.
BRASS FERRULE, WITH BENT
VENT COUPLING.

BRASS FERRULES, WITH TRAP SCREW.—Fig. 927.

SIZE	INCHES	2	3	4	5	6
PER DOZEN		10.00	20.00	30.00	54.00	72.00

BRASS FERRULES, WITH STRAIGHT VENT COUPLINGS.—Fig. 928.

SIZE	INCHES	2	3	4	5	6
WITH 1½-INCH VENT COUPLING	PER DOZEN	21.50	31.50	41.50	65.50	83.50
WITH 1½-INCH VENT COUPLING	PER DOZEN	25.00	35.00	45.00	69.00	87.00
WITH 2-INCH VENT COUPLING	PER DOZEN	31.00	41.00	51.00	75.00	93.00

BRASS FERRULES, WITH BENT VENT COUPLINGS.—Fig. 929.

SIZE	INCHES	2	3	4	5	6
WITH 1½-INCH VENT COUPLING	PER DOZEN	24.50	34.50	44.50	68.50	86.50
WITH 1½-INCH VENT COUPLING	PER DOZEN	30.00	40.00	50.00	74.00	92.00
WITH 2-INCH VENT COUPLING	PER DOZEN	37.00	47.00	57.00	81.00	99.00

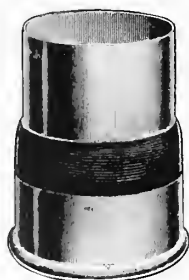


FIG. 930. COMBINATION FERRULE.

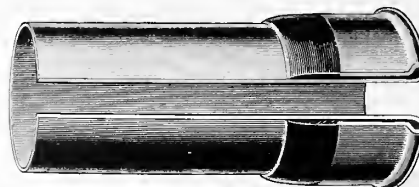


FIG. 931. SECTIONAL LONG FERRULE.

COMBINATION FERRULES, LEAD AND IRON.—Figs. 930 and 931.

LENGTH	INCHES	4	6	8	10	12
1½ X 2-INCH	EACH	.23	.35	.45	.50	.55
2-INCH	EACH	.18	.30	.40	.45	.50
3-INCH	EACH	.25	.40	.55	.70	.75
4-INCH	EACH	.35	.55	.70	.85	.90



FIG. 932. URINAL INLET CONNECTION, FOR LEAD PIPE.



FIG. 933. URINAL INLET CONNECTION, FOR IRON PIPE.

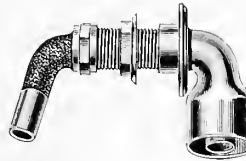


FIG. 934. URINAL INLET CONNECTION, WITH BENT COUPLING.

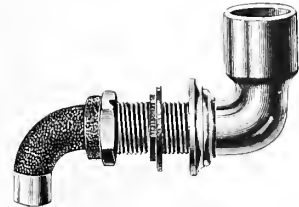


FIG. 935. URINAL OUTLET CONNECTION WITH BENT COUPLING.

URINAL CONNECTIONS.

FIGURE		932	933	934	935
POLISHED BRASS	EACH	.75	.75	1.75	3.00
NICKEL-PLATED	EACH	1.00	1.00	2.00	3.25

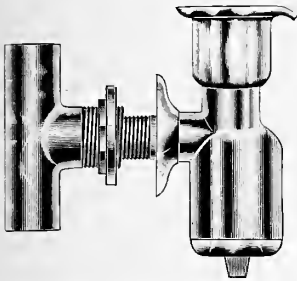


FIG. 936. URINAL TRAP, WITH WASTE AND VENT CONNECTIONS.

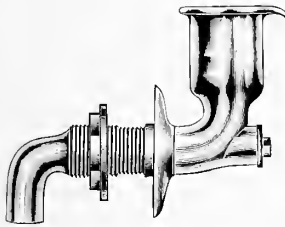


FIG. 937. URINAL WASTE THROUGH WALL.



FIG. 938. STRAIGHT URINAL WASTE TO FLOOR.

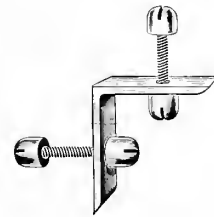


FIG. 939. URINAL CLAMP, WITH HEAVY ROUND-HEAD NUTS.

URINAL TRIMMINGS.

FIGURE		936	937	938	939
POLISHED BRASS	EACH	5.25	3.50	2.50	1.25
NICKEL-PLATED	EACH	5.50	3.75	2.75	1.50



FIG. 940.



FIG. 941.



FIG. 942.

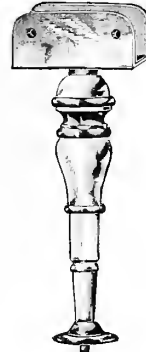


FIG. 943.

LEGS FOR URINAL AND CLOSET STALLS.

FIGURE		940	941	942	943
POLISHED BRASS	EACH	4.50	4.00	3.00	3.50
NICKEL-PLATED	EACH	5.50	5.00	4.00	4.50



FIG. 944. CLOSET FLUSH PIPE.



FIG. 945. CLOSET SUPPLY PIPE.

CLOSET FLUSH AND SUPPLY PIPES.—Figs. 944 and 945.

		POLISHED BRASS.	NICKEL-PLATED.
FLUSH PIPES, 1 $\frac{1}{4}$ -INCH	EACH	3.00	4.00
FLUSH PIPES, 1 $\frac{1}{2}$ -INCH	EACH	5.00	6.00
SUPPLY PIPES, $\frac{1}{2}$ -INCH	EACH	3.00	4.00



FIG. 946. PIPE STRAP.

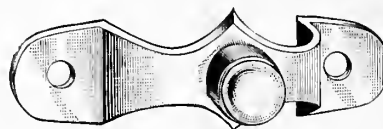


FIG. 947. PIPE STRAP, WITH RUBBER BUFFER.



FIG. 948. SPUN FLANGES.

PIPE STRAPS AND SPUN FLANGES, NICKEL-PLATED.—Figs. 946, 947, and 948.

SIZE	INCHES	$\frac{3}{8}$ Iron Pipe Size.	$\frac{1}{2}$ Iron Pipe Size.	$\frac{3}{4}$ Iron Pipe Size.	1 $\frac{1}{4}$ Tubing.	1 $\frac{1}{2}$ Tubing.	1 $\frac{3}{8}$ Tubing.	1 $\frac{1}{2}$ Tubing.
FIG. 946	EACH	.25	.28	---	.38	.40	---	---
FIG. 947	EACH	---	---	---	.45	.50	---	---
FIG. 948	EACH	.15	.16	.18	.20	.22	.23	.25

FIG. 949.
ROUND-HEAD
SCREW.FIG. 950.
SQUARE-HEAD
SCREW.FIG. 951.
LOOSE-HEAD
SCREW.FIG. 952.
BASIN CHAIN
SNAP.FIG. 953.
S HOOK.FIG. 954.
SWIVEL
CONNECTION.FIG. 955.
CLOSET PULL.

FIGURE	949 1 $\frac{1}{2}$ -inch.	949 2-inch.	950	951	952	953	954	955 Wood.	955 Celluloid.
NICKEL-PLATED	.50	.75	1.00	3.00	.75	.75	1.50	3.00	6.00

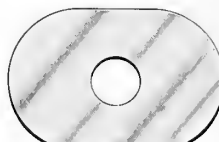
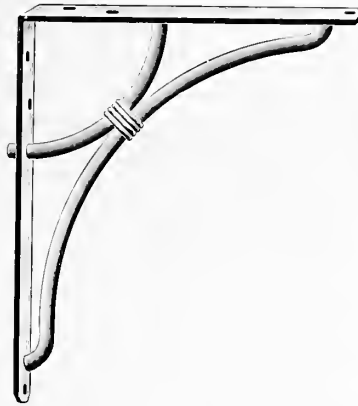
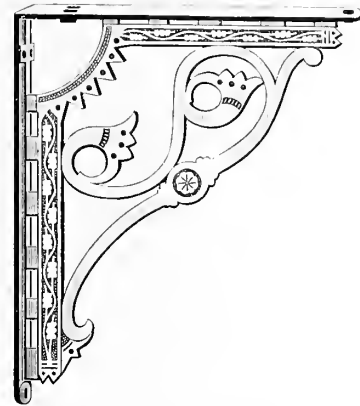
FIG. 956.
CLOSET CLAMP.FIG. 957.
HOPPER CLAMP.FIG. 958.
CLOSET PLATE.FIG. 959.
CLOSET WASHER.FIG. 960.
RUBBER FLOOR
GASKET.

FIGURE	956 Galv. Iron.	956 Pol. Brass.	956 N.-P. Brass.	957	958	959	960
PER DOZEN	.60	1.20	1.80	1.80	.75	.70	6.00

FIG. 961. IRON BRACKET.
PAINTED, GALVANIZED OR ENAMELED.FIG. 962. STEEL BRACKET.
NICKEL-PLATED.FIG. 963. IRON BRACKET
NICKEL-PLATED.

IRON BRACKETS.—Fig. 961.

NUMBER		1	2	3
PAINTED	EACH	.45	.55	.75
GALVANIZED	EACH	.75	.85	1.00
ENAMELED	EACH	.90	1.00	1.25

STEEL AND IRON BRACKETS.—Figs. 962 and 963.

SIZE	INCHES	4 x 5	7 x 9	9 x 11	16 x 18	20 x 29
NICKEL-PLATED	EACH	.16	.27	.48	1.00	1.75



FIG. 964. BRASS BRACKET.

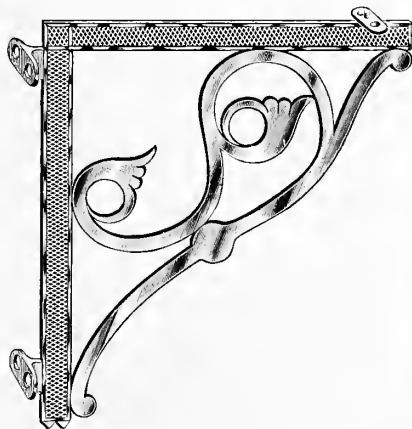


FIG. 965. BRASS BRACKET.

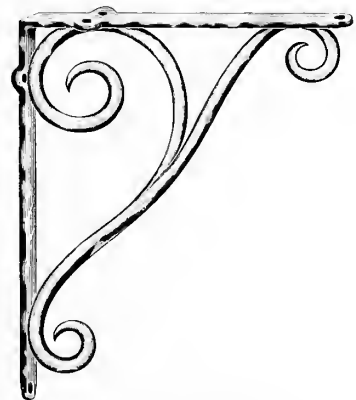


FIG. 966. BRASS BRACKET.

BRASS BRACKETS, NICKEL-PLATED.—Figs. 964, 965, and 966.

SIZE	INCHES	4 x 5	7 x 9	8 x 10	9 x 11	10 x 12	16 x 18	20 x 20	20 x 28
FIG. 964	EACH	----	----	----	----	----	----	3.00	----
FIG. 965	EACH	----	.75	.95	----	1.10	2.40	----	----
FIG. 966	EACH	.38	.70	.90	1.10	----	3.00	----	----

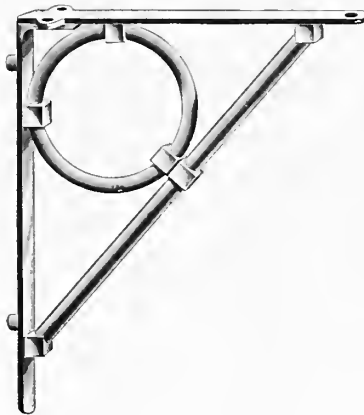


FIG. 967. BRASS BRACKET.

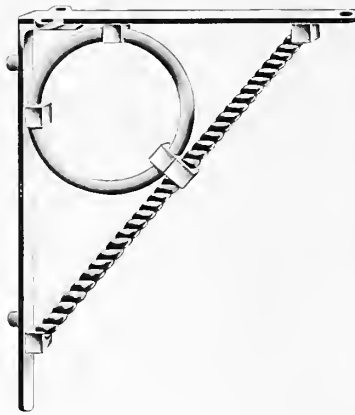
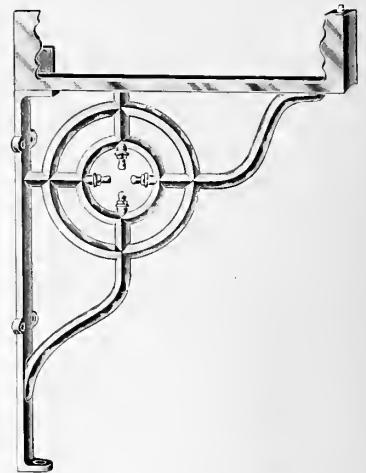


FIG. 968. BRASS BRACKET.

FIG. 969. BRASS BRACKET,
WITH FRAME FOR 5-INCH APRON.**BRASS BRACKETS, NICKEL-PLATED.—Figs. 967, 968, and 969.**

SIZE	INCHES	7 x 9	9 x 11	12 x 14	16 x 18	20 x 20	20 x 28
FIGS. 967, 968. NICKEL-PLATED	EACH	2.00	2.30	3.30	3.80	7.30	8.00
FIG. 969. NICKEL-PLATED	EACH	----	----	----	----	----	8.50

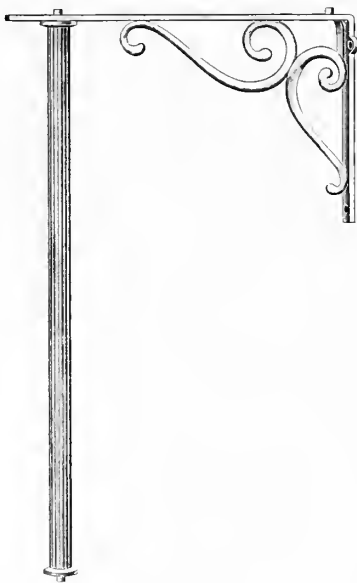


FIG. 970. BRASS LEG BRACKET.



FIG. 971. APRON BACK.



FIG. 972. APRON BACK.



FIG. 973. BRASS BRACKET, WITH FANCY METAL APRON.

BRACKETS AND APRON BACKS, NICKEL-PLATED.

SIZE	INCHES	8 x 18	8 x 20	20 x 20	20 x 28 $\frac{3}{4}$
FIG. 970*	EACH	2.90	4.00	----	----
FIG. 971. APRON BACK	EACH	1.00	----	----	----
FIG. 972. APRON BACK	EACH	.75	----	----	----
FIG. 973. WITH APRON	PER PAIR	----	----	24.00	26.00

*This list does not include any leg. Order style leg wanted. See page 191.

The apron for Fig. 973 Brackets can be furnished either 28 or 30 inches across the front.

BRASS LAVATORY LEGS.



FIG. 974.



FIG. 975.



FIG. 976.



FIG. 977.



FIG. 978.



FIG. 979.



FIG. 980.



FIG. 981.



FIG. 982.



FIG. 983.



FIG. 984.

FIGURE	974	975	976	977	978	979	980	981	982	983	984
NICKEL-PLATED EACH	2.40	2.40	3.20	3.75	3.75	4.25	3.75	4.00	3.75	5.75	5.75

All Legs 28½ inches high. Any pattern shown can be furnished either with or without apron attachment.

LAVATORY OR BATH SUPPLY PIPES.



FIG. 985.

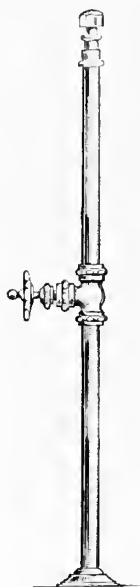


FIG. 986.



FIG. 987.

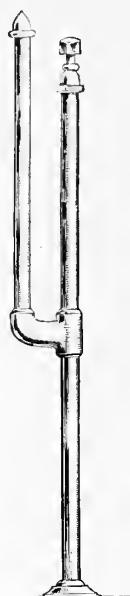


FIG. 988.

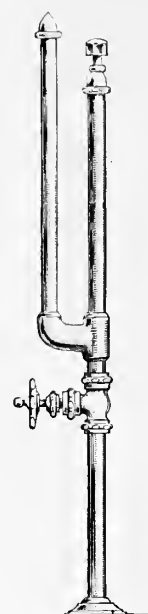


FIG. 989.



FIG. 990.

FIGURE		985	986	987	988	989	990
POLISHED BRASS	EACH	1.50	2.75	2.00	2.90	4.50	3.50
NICKEL-PLATED	EACH	1.60	3.00	2.20	3.10	5.00	3.75



FIG. 991.

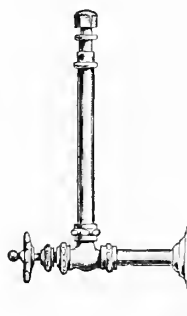


FIG. 992.



FIG. 993.



FIG. 994.

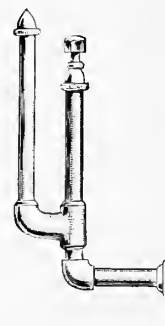


FIG. 995.

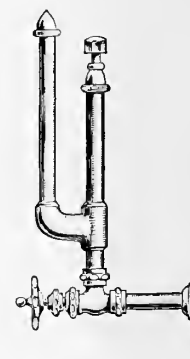


FIG. 996.

FIGURE		991	992	993	994	995	996
POLISHED BRASS	EACH	1.50	2.75	2.00	3.50	2.90	4.50
NICKEL-PLATED	EACH	1.60	3.00	2.20	3.75	3.10	5.00

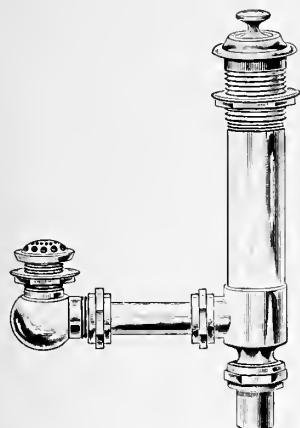


FIG. 997. IDEAL BASIN WASTE.



FIG. 998. ECLIPSE TRAP, WITH EXTENSIONS TO WALL, WITH FLANGES.

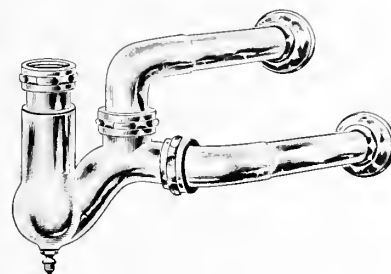


FIG. 999. IDEAL TRAP, WITH EXTENSIONS TO WALL, WITH FLANGES.

LAVATORY WASTES AND TRAPS.—Figs. 997, 998, and 999.

FIGURE		997	998	999
POLISHED BRASS	EACH	6.00	6.00	6.75
NICKEL-PLATED	EACH	6.50	6.25	7.25
NICKEL-PLATED LIGHT PATTERN WASTE	EACH	5.00	----	----

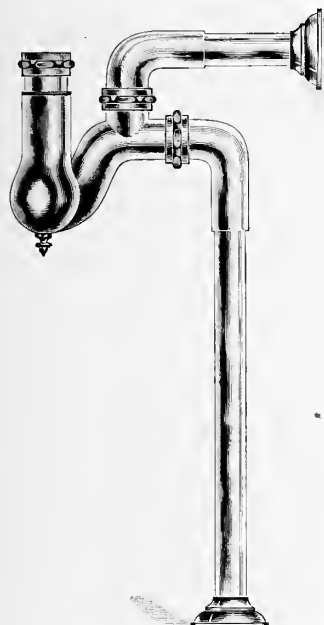


FIG. 1000. IDEAL TRAP, WITH EXTENSIONS TO FLOOR AND WALL, WITH FLANGES.

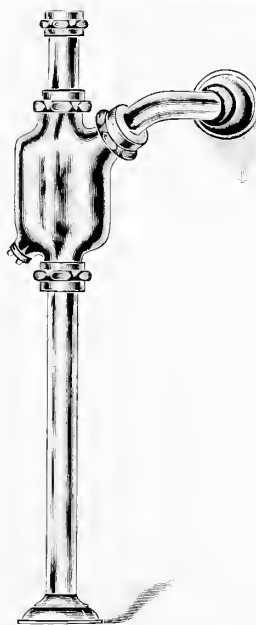
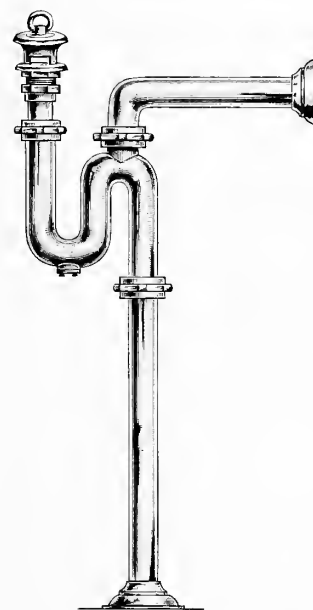


FIG. 1001. ECLIPSE TRAP, WITH EXTENSIONS TO FLOOR AND WALL, WITH FLANGES.



* FIG. 1002. FULL S TRAP, WITH EXTENSIONS TO FLOOR AND WALL, WITH FLANGES.

IDEAL AND ECLIPSE LAVATORY TRAPS.—Figs. 1000, 1001, and 1002.

FIGURE		1000	1001	1002	1002	1002
SIZE	INCHES	----	----	1½	1½	2
POLISHED BRASS	EACH	6.75	6.00	5.50	7.00	9.50
NICKEL-PLATED	EACH	7.25	6.25	5.75	7.50	10.00

* P Traps or Half S Traps same price as S Traps.

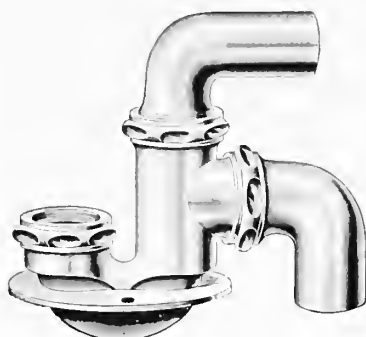


FIG. 1003. BRASS BATH TRAP. SIZE, 2 INCHES

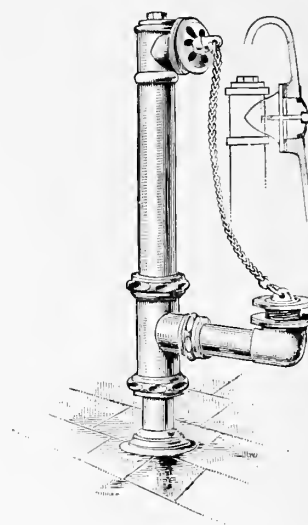


FIG. 1004. COMBINED WASTE AND OVERFLOW

BATH TRAPS AND COMBINED WASTE AND OVERFLOW.

FIG. 1003. POLISHED BRASS	EACH	9.00
FIG. 1003. NICKEL-PLATED	EACH	10.00
FIG. 1004. TRIMMINGS NICKEL-PLATED	EACH	5.75
FIG. 1004. NICKEL-PLATED ALL OVER	EACH	6.00

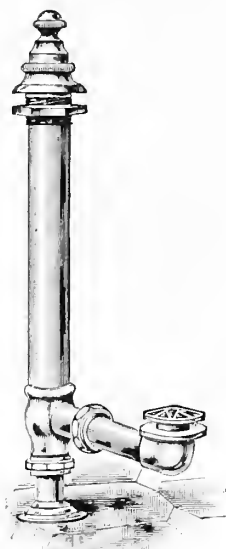


FIG. 1005. BATH WASTE FOR WIDE END RIMS

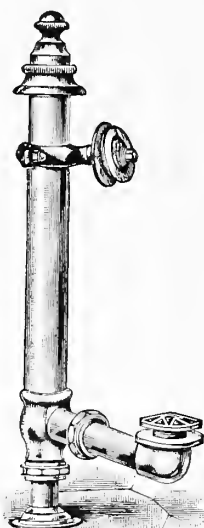


FIG. 1006. BATH WASTE FOR ROLLED WOOD OR IRON RIMS.

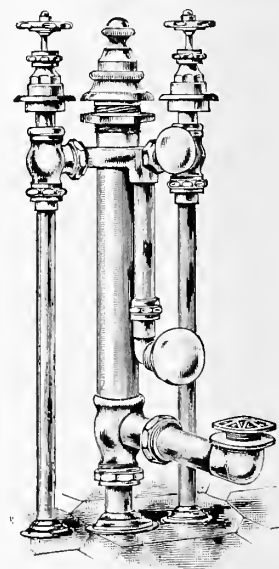


FIG. 1007. COMBINATION BATH WASTE AND BELL SUPPLY.

BATH WASTES AND BELL SUPPLY FIXTURES.

FIGURE		1005	1006	1007
NICKEL-PLATED TRIMMINGS	EACH	10.00	12.00	18.00
NICKEL-PLATED ALL OVER	EACH	12.00	14.00	25.00



FIG. 1008. BASIN PUMP.

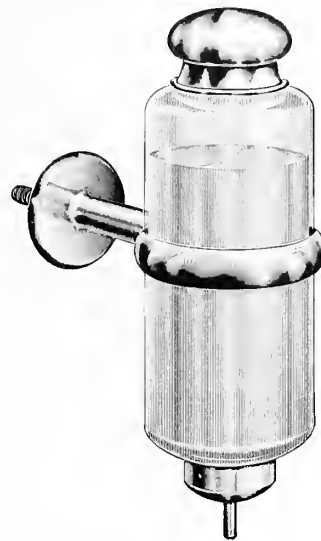


FIG. 1009. LIQUID SOAP VASE.

BASIN PUMPS AND SOAP VASES.—Figs. 1008 and 1009.

FIG. 1008. NICKEL-PLATED BASIN PUMP	.....	EACH	11.00
FIG. 1009. GLASS, WITH NICKEL-PLATED TRIMMINGS	.....	EACH	2.50
LIQUID SOAP. SMALL BOTTLES	.....	EACH	1.00
LIQUID SOAP. LARGE BOTTLES	.....	EACH	2.00

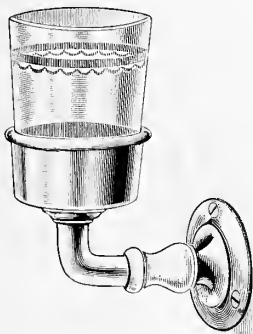


FIG. 1010. TUMBLER HOLDER.

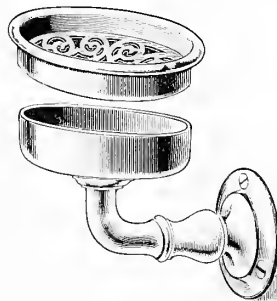


FIG. 1011. SOAP CUP ON BRACKET.

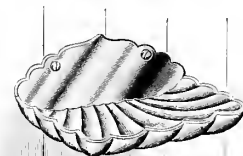


FIG. 1012. SOAP DISH.

FIGURE	1010	1011	1012
NICKEL-PLATED.....	EACH	1.50	2.75
			1.50

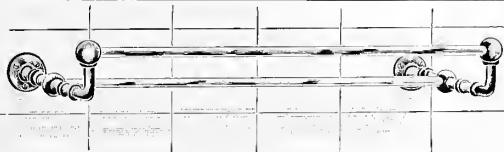
FIG. 1013.
TOWEL RACK. LENGTH 20 INCHES.FIG. 1014.
ROBE HOOK.FIG. 1015.
TOWEL RACK.

FIGURE	1013	1014	1015
NICKEL-PLATED.....	EACH	3.25	.75
			1.60



FIG. 1016. TOWEL SHELF.
LENGTH, 20 INCHES. WIDTH, 6 INCHES.

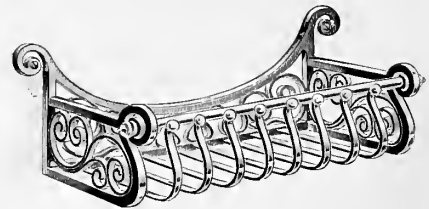


FIG. 1017. COMB AND BRUSH HOLDER.
LENGTH, 12 INCHES. WIDTH, 5 INCHES.

TOWEL SHELF, NICKEL-PLATED
COMB AND BRUSH HOLDER, NICKEL-PLATED

EACH 4.00
EACH 12.00

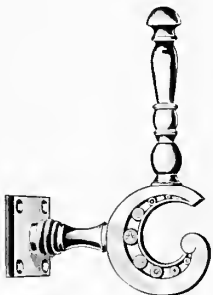


FIG. 1018. COAT HOOK AND
HAT PIN. 7 INCHES HIGH.



FIG. 1019. PAPER HOLDER.

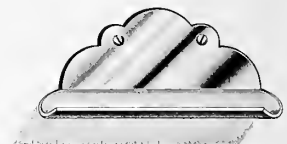


FIG. 1020. CIGAR HOLDER.

FIGURE

1018

1019

1020

NICKEL-PLATED

EACH

1.25

6.00

.75

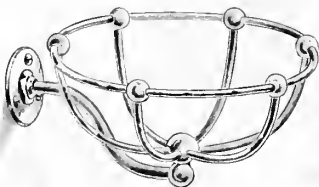


FIG. 1021. SPONGE HOLDER.
DIAMETER, 7 1/4 INCHES.

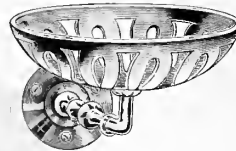


FIG. 1022. SPONGE HOLDER FOR SMALL
SPONGE, OVAL. SIZE, 5 1/4 X 4 INCHES.

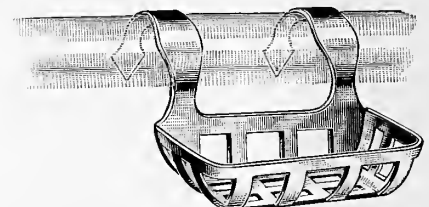


FIG. 1023.
SOAP CUP TO ATTACH TO TUB RIM.

FIGURE

1021

1022

1023

NICKEL-PLATED

EACH

3.00

2.50

2.50

CLOW'S OPEN LAVATORIES

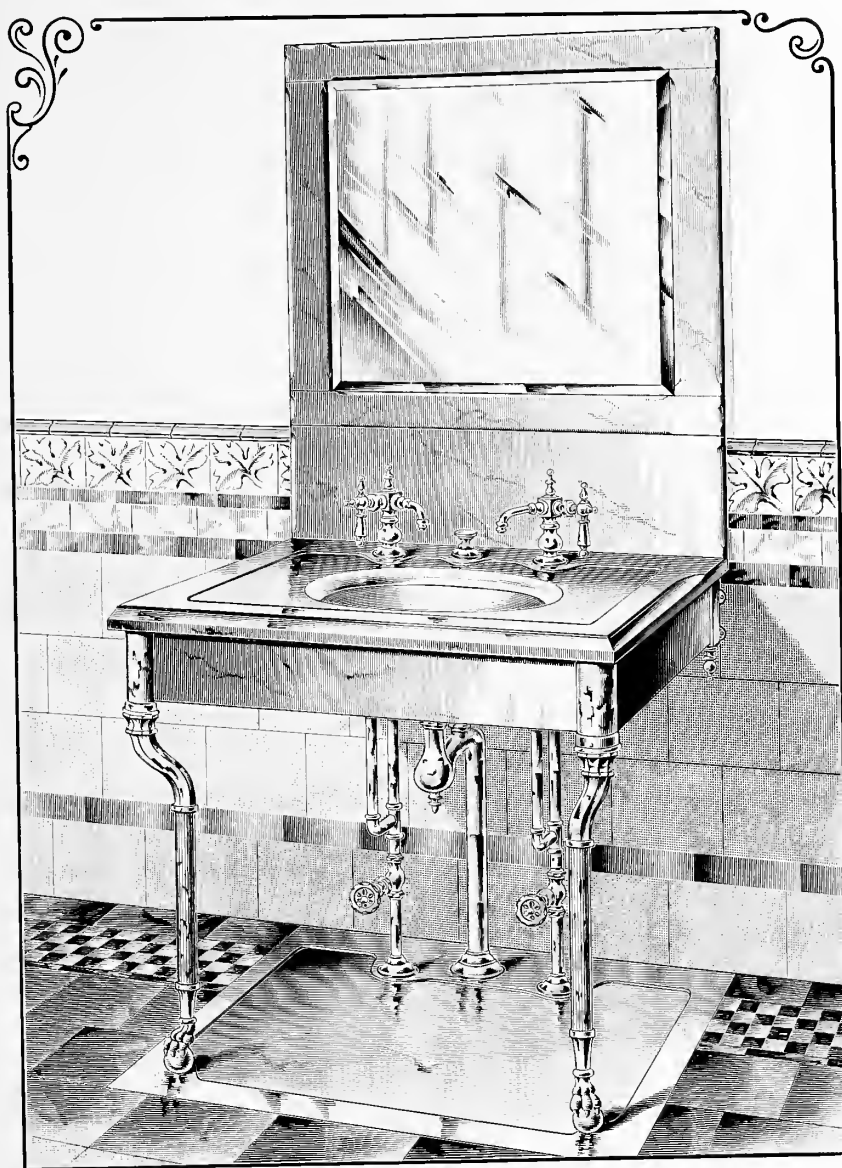


FIG. 1024.

Includes Italian Marble Slab 22 x 32 inches, 1½ inches thick, with 14-inch Back, 5-inch Front and Side Apron Pieces, 15 x 19 inch Oval Basin, Beveled Plate Glass Mirror 24 x 28 inches, with Italian Marble Frame, and the following Nickel-plated Brass Trimmings: Ideal Basin Waste, No. 4 Fuller Basin Cocks, Recessed Legs with Apron Holders, Ideal Trap with Waste to Floor and Vent to Wall, Supply Pipes with Air Chambers and Stop Valves, Wall and Floor Flanges. Price, as described. - - - - - \$120.00

Add for Countersunk Italian Marble Floor Slab, 22 x 32 inches, 1½ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

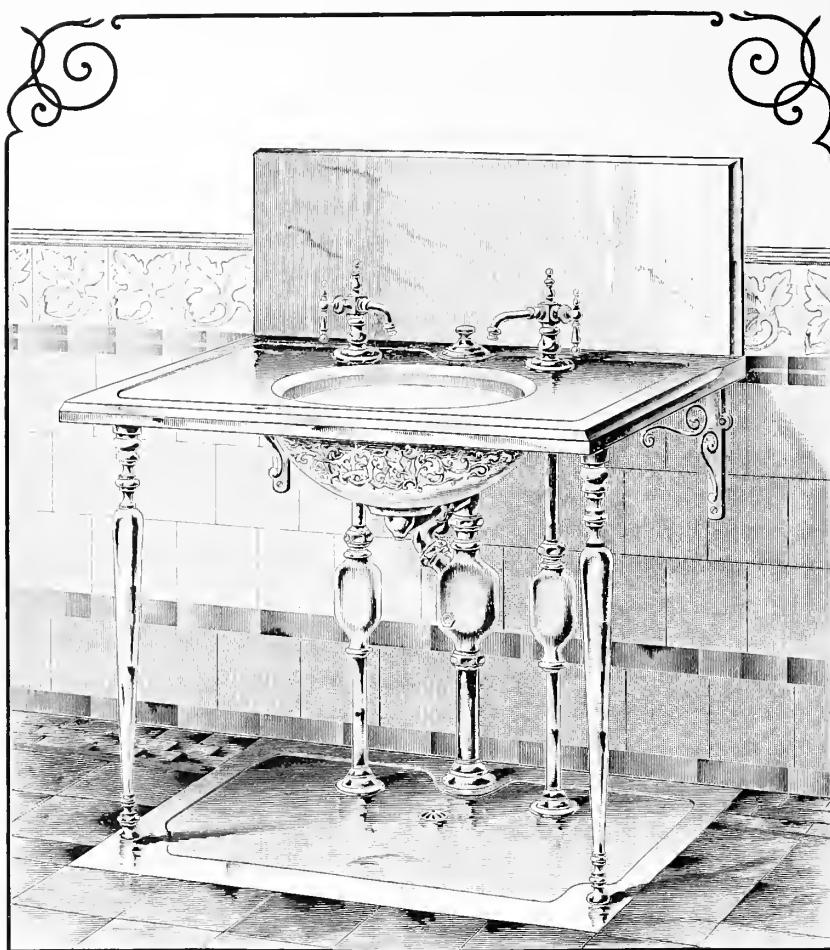


FIG. 1025.

Includes Italian Marble Slab 22x32 inches, $1\frac{1}{4}$ inches thick, with 14-inch Back, Clow's 15x19 inch Oval Embossed Basin, and the following Nickel-plated Brass Trimmings: Ideal Basin Waste, No. 4 Fuller Basin Cocks, Heavy Cast Brass Legs with Combination Bracket, Bag Trap with Waste to Floor and Vent to Wall, Supply Pipes with Bell Air Chambers, Wall and Floor Flanges. Price, as described, - \$62.00

Add for Countersunk Italian Marble Floor Slab, 22x32 inches, $1\frac{1}{4}$ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

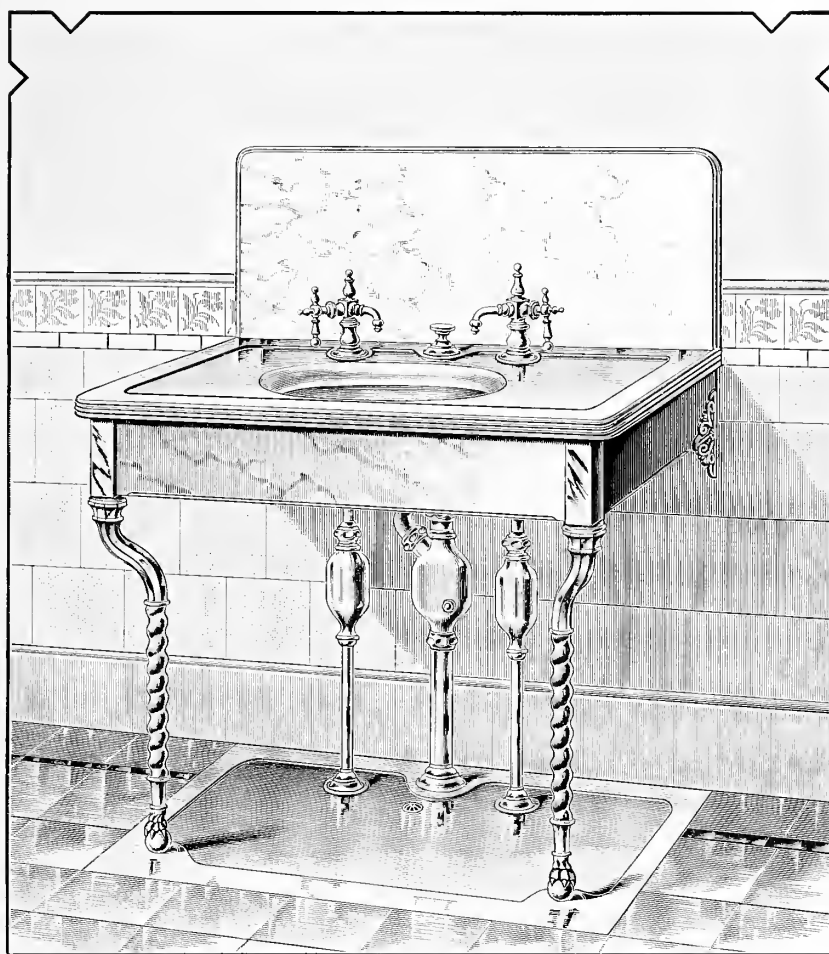


FIG. 1026.

Includes Italian Marble Slab 22 x 32 inches, 1 $\frac{1}{4}$ inches thick, 14-inch Back, 5-inch Front and Side Apron Pieces, 15 x 19 inch Oval Basin, and the following Nickel-plated Brass Trimmings: Ideal Basin Waste, No. 4 Fuller Basin Cocks, Recessed Legs with Apron Holder, Bag Trap with Waste to Floor and Vent to Wall, Supply Pipes with Bell Air Chambers, Wall and Floor Flanges. Price, as described, - - - - - \$66.00

Add for Countersunk Italian Marble Floor Slab, 22 x 32 inches, 1 $\frac{1}{4}$ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

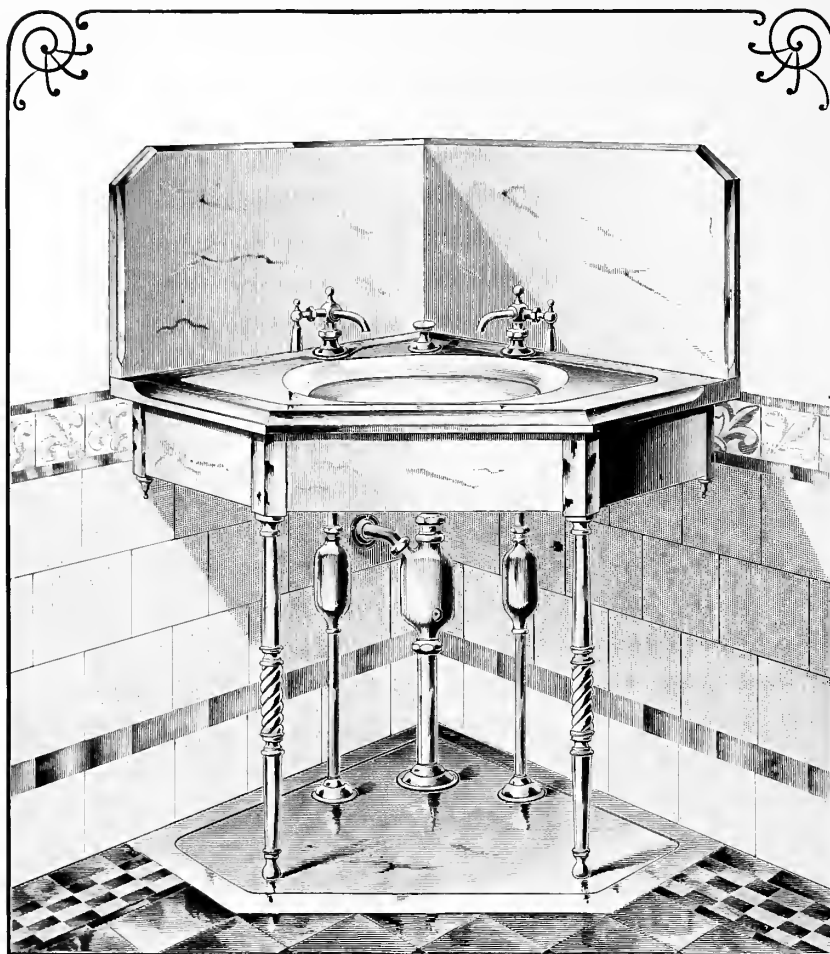


FIG. 1027.

Includes Italian Marble Corner Slab 26 x 26 inches, $1\frac{1}{4}$ inches thick, 14-inch Backs, 5-inch Front and Side Apron Pieces, 15 x 19 inch Oval Basin, and the following Nickel-plated Brass Trimmings: Ideal Basin Waste, No. 6 Fuller Basin Cocks, Brass Legs with Apron Holders, Bag Trap with Waste to Floor and Vent to Wall, Supply Pipes with Bell Air Chambers, Wall and Floor Flanges. Price, as described, - \$60.00

Add for Countersunk Italian Marble Floor Slab, 26 x 26 inches, $1\frac{1}{4}$ inches thick. - - - - - 8.00

This lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

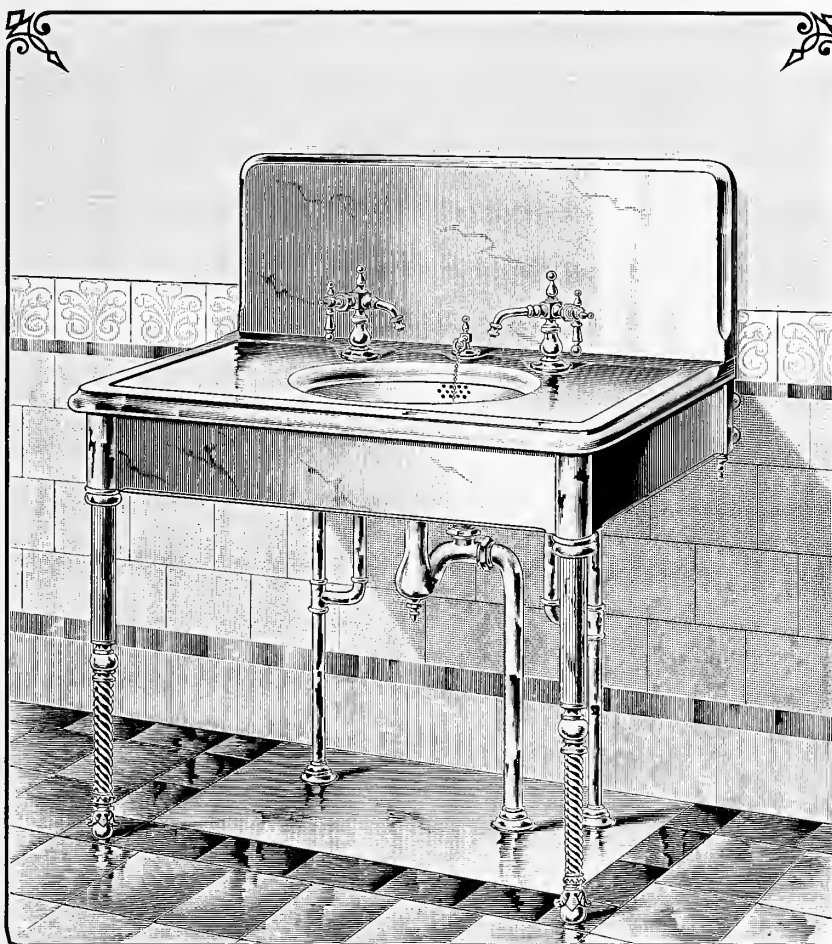


FIG. 1028.

Includes Italian Marble Slab 22 x 32 inches, 1½ inches thick, 14-inch Back, 5-inch Front and Side Apron Pieces, 15 x 19 inch Oval Basin, and the following Nickel-plated Brass Trimmings: No. 3 Fuller Basin Cocks, Chain Stay, Brass Legs with Apron Holders, Ideal Trap with Waste to Floor and Vent to Wall, Supply Pipes with Air Chambers, Wall and Floor Flanges. Price, as described, - - - - - \$43.00
 Add for Countersunk Italian Marble Floor Slab, 22 x 32 inches, 1½ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

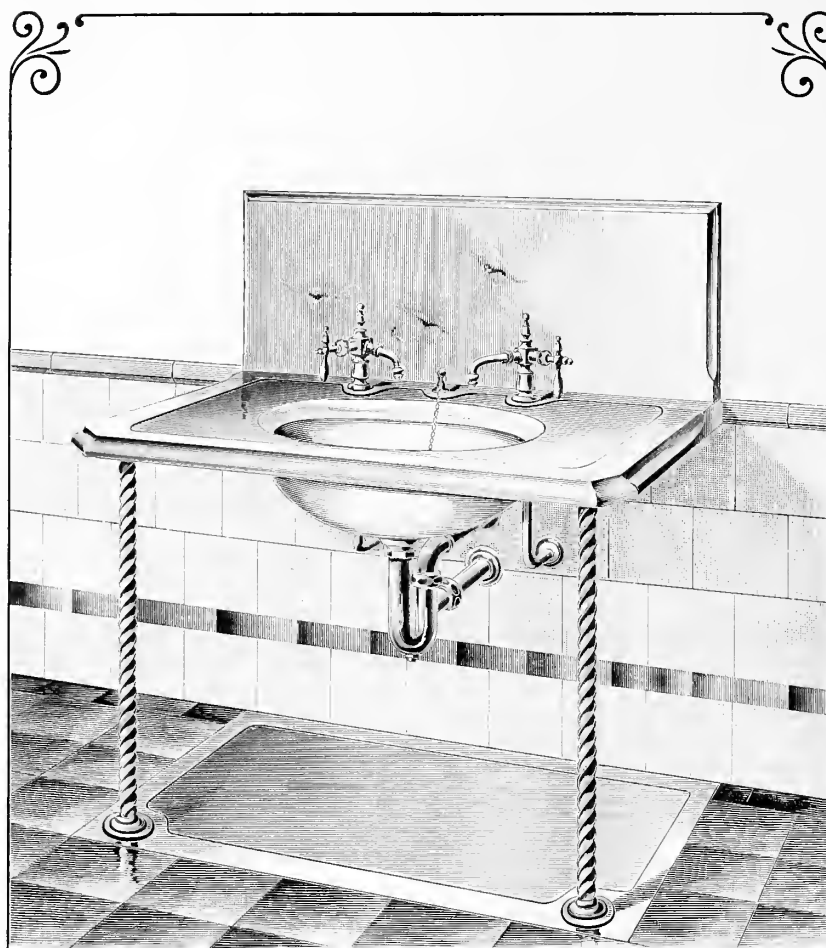


FIG. 1029.

Includes Italian Marble Slab 20 x 30 inches, $1\frac{1}{4}$ inches thick, 12-inch Back, 14-inch Round Patent Overflow Basin with Nickel-plated Plug and Chain, and the following Nickel-plated Brass Trimmings: No. 2 Fuller Basin Cocks, Chain Stay, Brass Legs, Fig. 975, Brass P Trap with Vent and Waste to Wall, Supply Pipes to Wall and Flanges. Price, as described, - - - - - \$35.00

Add for Countersunk Italian Marble Floor Slab, 22 x 32 inches, $1\frac{1}{4}$ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

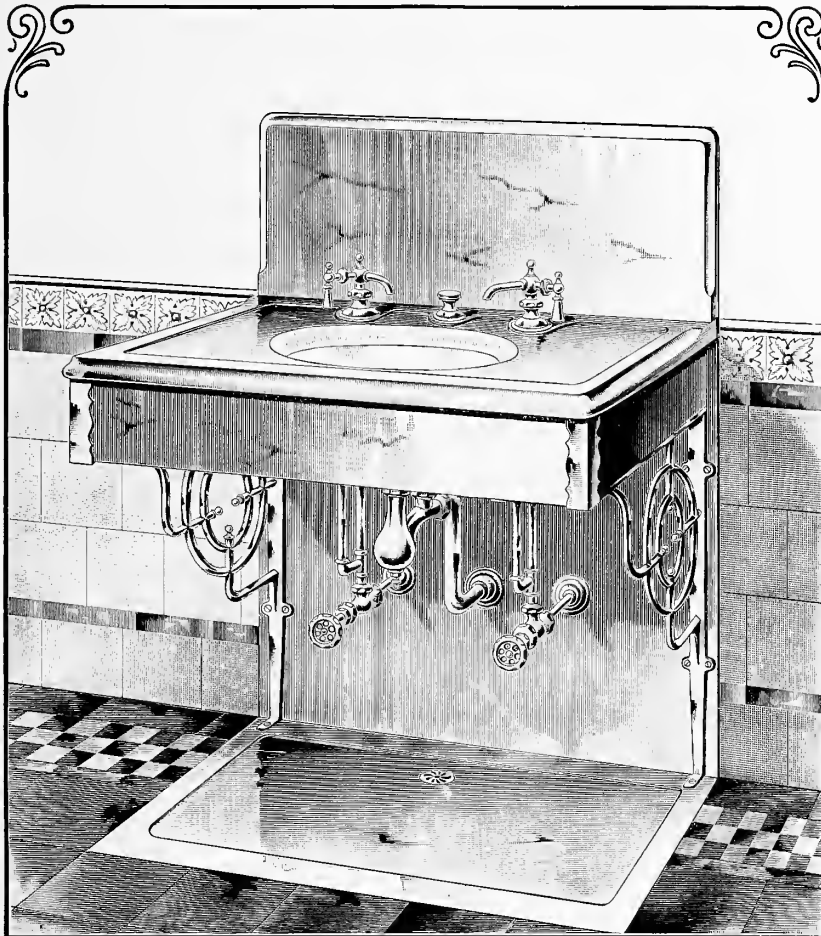


FIG. 1030.

Includes Italian Marble Slab 22 x 32 inches, $1\frac{1}{4}$ inches thick, 14-inch Back, 5-inch Front and Side Apron Pieces, 15 x 19 inch Oval Basin, and the following Nickel-plated Brass Trimmings: Ideal Basin Waste, No. 6 Fuller Basin Cocks, Heavy Cast Brass Brackets to Floor, Ideal Trap with Waste and Vent to Wall, Supply Pipes with Air Chambers and Stop Valves, with Wall Flanges. Price, as described, - - - \$70.00

Add for Countersunk Italian Marble Floor Slab, 22 x 32 inches, $1\frac{1}{4}$ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

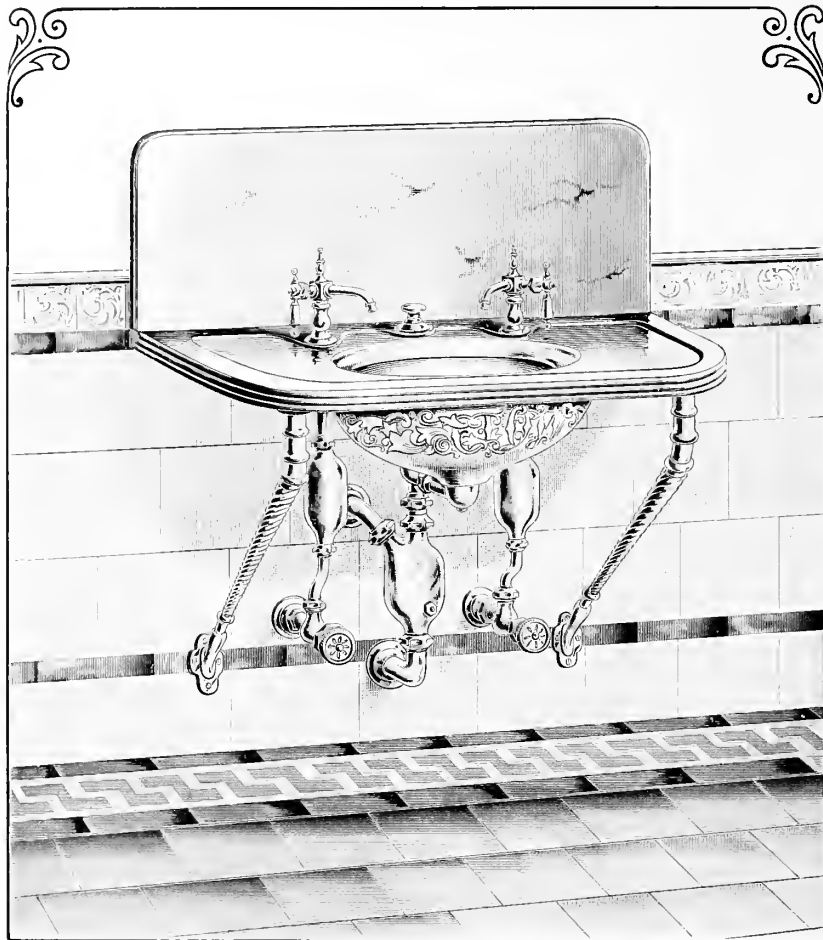


FIG. 1031.

Includes Italian Marble Slab 22 x 32 inches, $1\frac{1}{4}$ inches thick, 14-inch Back, Clow's 15 x 19 inch Oval Embossed Basin, and the following Nickel-plated Brass Trimmings: Ideal Basin Waste, No. 4 Fuller Basin Cocks, Heavy Cast Brass Brackets, Bag Trap with Waste and Vent to Wall, Supply Pipes with Bell Air Chambers, Stop Valves, and Wall Flanges. Price, as described. - - - - - \$63.00

Add for Countersunk Italian Marble Floor Slab, 22 x 32 inches, $1\frac{1}{4}$ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

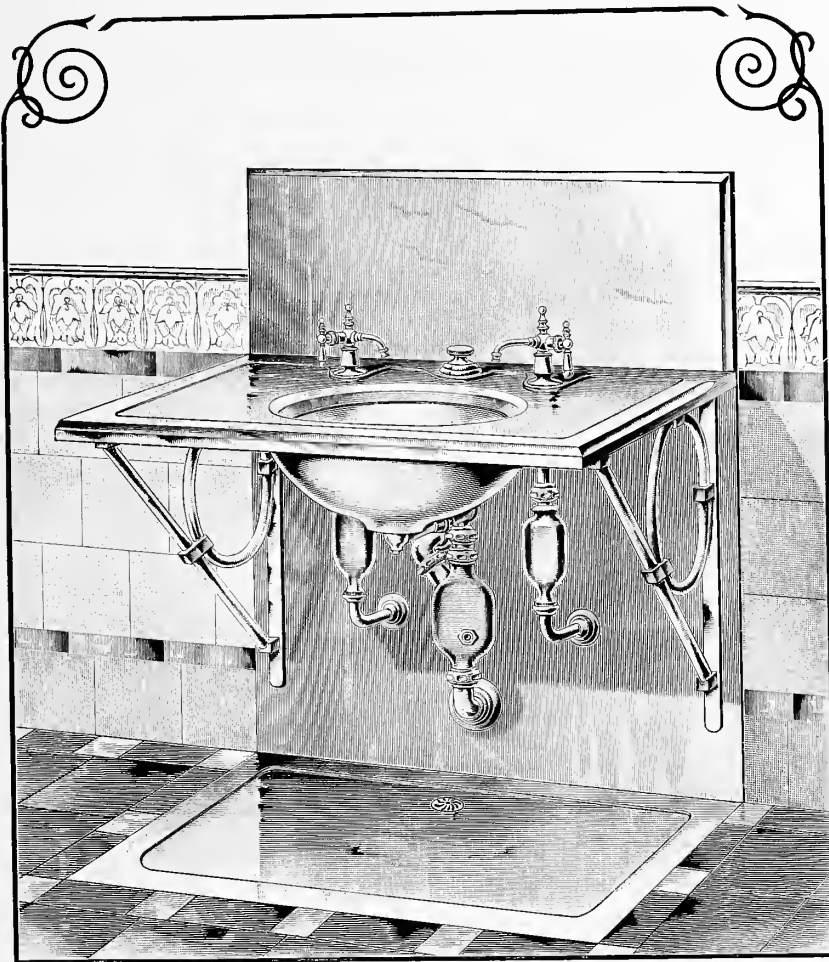


FIG. 1032.

Includes Italian Marble Slab 22x32 inches, $1\frac{1}{4}$ inches thick, 14-inch Back, 15x19 inch Oval Basin, and the following Nickel-plated Brass Trimmings: Ideal Basin Waste, No. 3 Fuller Basin Cocks, Cast Brass Brackets, Bag Trap with Waste and Vent to Wall, Supply Pipes with Bell Air Chambers, and Wall Flanges. Price, as described, - - - - - \$53.00

Add for Countersunk Italian Marble Floor Slab, 22x32 inches, $1\frac{1}{4}$ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

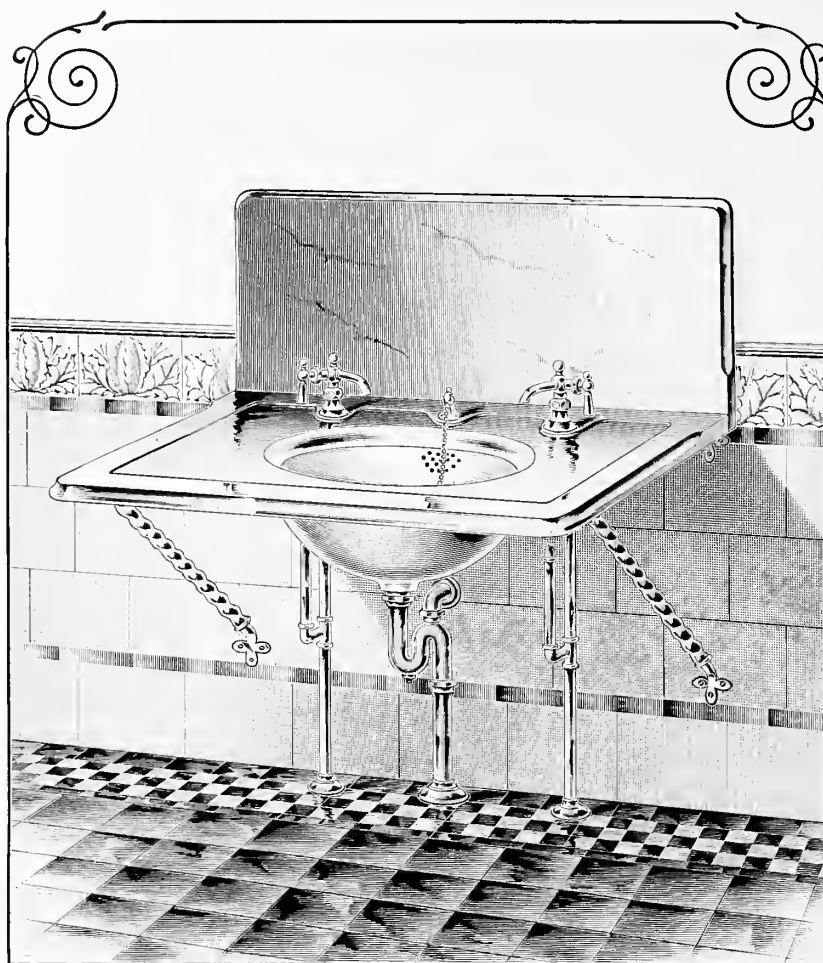


FIG. 1033.

Includes Italian Marble Slab 22 x 32 inches, 1½ inches thick, 14-inch Back, 15 x 19 inch Oval Basin, and the following Nickel-plated Brass Trimmings: No. 6 Fuller Basin Cocks, Chain Stay and Chain, Brass Brackets, Brass S Trap with Vent to Wall and Waste to Floor, Supply Pipes with Air Chambers, Wall and Floor Flanges. Price, as described, - - - - - \$39.00

Add for Countersunk Italian Marble Floor Slab, 22 x 32 inches, 1½ inches thick, - - - - - 8.00

This Lavatory can also be furnished in any kind of American or Foreign Marble, Onyx or Jasper.

CLOW'S OPEN LAVATORIES.

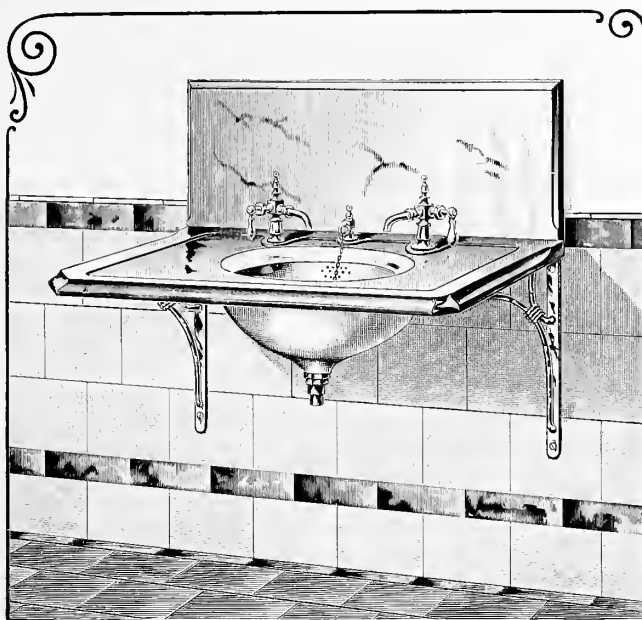


FIG. 1034.

Includes Italian Marble Slab 20x24 inches, $1\frac{1}{4}$ inches thick, 10-inch Back, 14-inch Round Patent Overflow Basin with Metal Plug and Rubber Stopper, and the following Nickel-plated Trimmings: No. 1 Fuller Basin Cocks, Chain Stay and Chain, and Fig. 962 Bracket. Price, as described. \$19.00

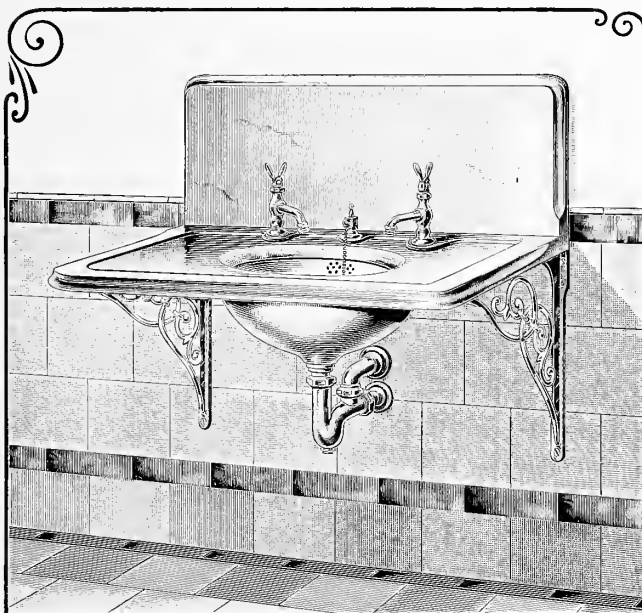


FIG. 1035.

Includes Italian Marble Slab 20x24 inches, $1\frac{1}{4}$ inches thick, 10-inch Back, 14-inch Round Patent Overflow Basin with Metal Plug and Rubber Stopper, and the following Nickel-plated Trimmings: Doherty Self-closing Basin Cocks, Chain Stay and Chain, Brass P Trap with Vent and Waste to Wall with Flanges, and Enameled Iron Brackets. Price, as described, \$21.00
 If with No. 2 Fuller Basin Cocks, deduct, 3.00

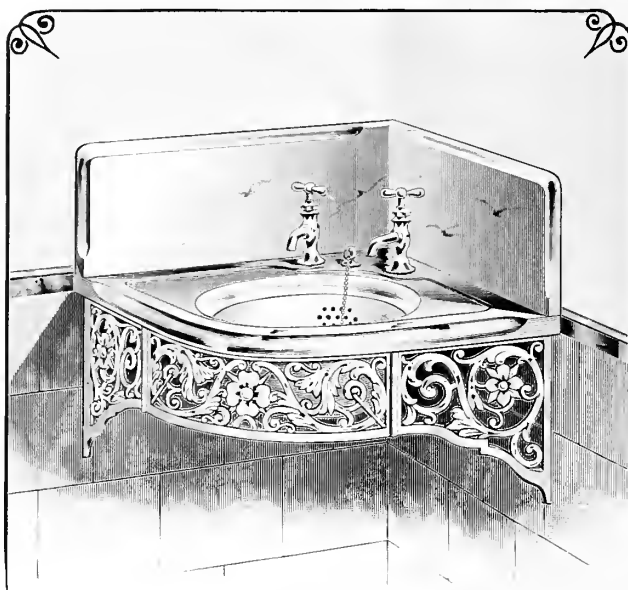
CLOW'S OPEN LAVATORIES.

FIG. 1036.

Includes Italian Marble Slab 20 x 20 inches, 1½ inches thick, 12-inch Backs, 14-inch Round Patent Overflow Basin. Enameled Iron Apron and Brackets, Nickel-plated Self-closing Basin Cocks, Chain Stay and Chain. Price, as described, - - - - - \$20.00
 Same as above, with 22 x 22 inch Slab. - - - - - 22.00

When desired, we furnish this Lavatory with Fuller or Compression Basin Cocks, but as they are generally used in public buildings, we recommend Self-closing Cocks.

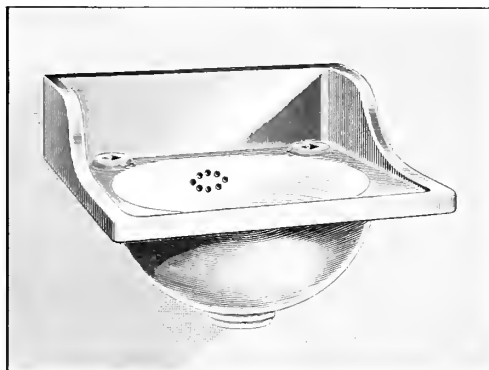
CLOW'S EARTHENWARE LAVATORIES.

FIG. 1037.

Slab, Back, and Basin, combined in one piece. Size
 14 x 14 inches. Price, - - - - - \$6.50
 Slab, Back, and Basin, combined in one piece. Size
 18 x 18 inches. Price, - - - - - 9.25

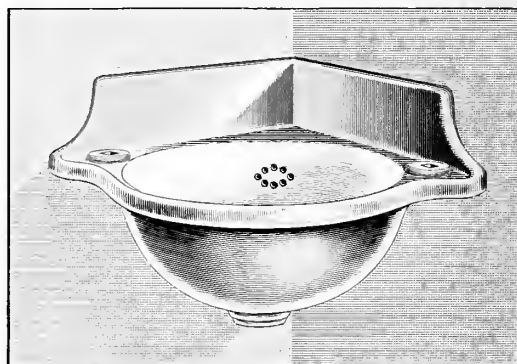


FIG. 1038.

Slab, Back, and Basin, combined in one piece. Size
 14 x 14 inches. Price, - - - - - \$6.50
 Slab, Back, and Basin, combined in one piece. Size
 18 x 18 inches. Price, - - - - - 9.25



FIG. 1039.

Includes Italian Marble Slab 18x14 inches, 14-inch Back, with the following Nickel-plated Trimmings: No. 2 Fuller Pantry Cock, Brass Brackets, Brass Drip Cup, Ideal Trap with Vent and Waste to Wall, Glass

Holders and Two Ornamental Glasses.	Price, as described,	-	-	-	-	-	-	-	-	\$30.00
Price, as described, without Trap, deduct	-	-	-	-	-	-	-	-	-	5.00
Price, as described, without Trap, Glass Holders, and Glasses, deduct	-	-	-	-	-	-	-	-	-	9.00
Price, as described, with Pink or Dark Tennessee Marble, add	-	-	-	-	-	-	-	-	-	1.00

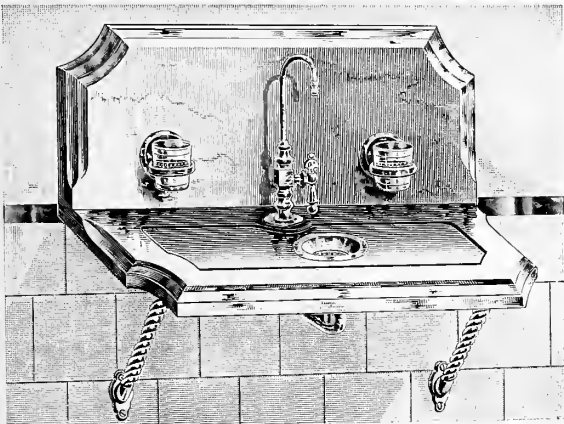


FIG. 1040.

Includes Italian Marble Slab 18x14 inches, 14-inch Back, with the following Nickel-plated Trimmings: No. 2 Fuller Pantry Cock, Brass Brackets, Brass Drip Cup, Brass Waste to Wall, Glass Holders and Two Ornamental Glasses. Price, as described, - - - \$27.00
 Price, as described, without Waste to Wall, Glass Holders, and Glasses, deduct - - - 4.00
 Same, with Pink or Dark Tennessee Marble, add - - - 1.00

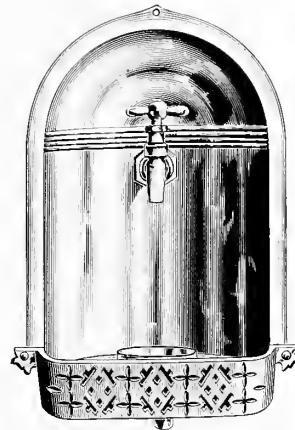


FIG. 1041. COPPER ALCOVE.

No. 1. Copper Alcove, 6½ inches wide, 10 inches high, 3½ inches deep, inside measurements, \$13.00
 No. 2. Copper Alcove, 7½ inches wide, 11 inches high, 3¾ inches deep, inside measurements, 15.00
 Made of Heavy Sheet and Cast Brass, finely Nickel-plated.

We can furnish these Drinking Fountains in any kind of American or Foreign Marble, Onyx or Jasper, and in any Special Design or Size.

CLOW'S ENAMELED IRON SECTIONAL WASHSTANDS.

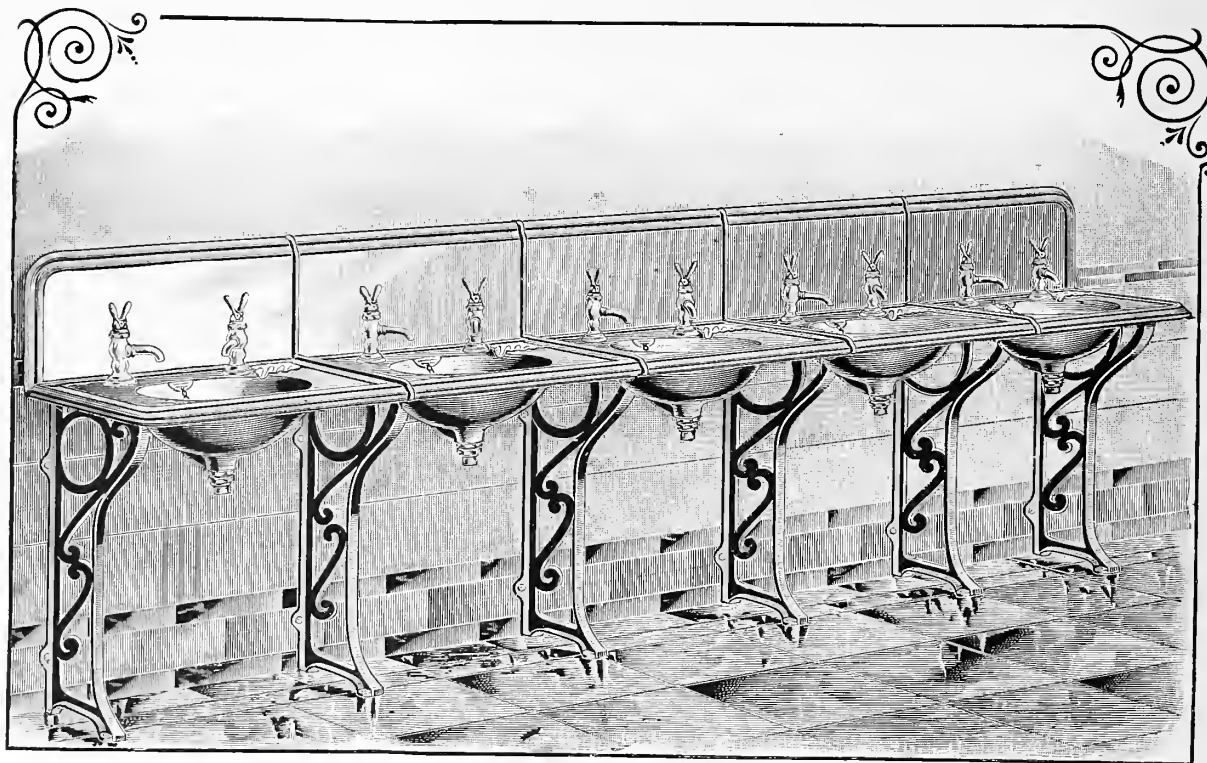


FIG. 1042.

Includes five Enameled Iron Sectional Washstands on Bronzed Iron Frame, with 12 x 15 inch Oval Patent Overflow Basins, Slab and Basin cast in one piece. Each Slab 24 x 17 inches, with 10½-inch Enameled Iron Back, Nickel-plated Doherty Self-closing Basin Cocks, Removable Nickel-plated Brass Overflow Strainer, and Outlet Coupling with Rubber Stopper. Price, as described, - - - - - \$92.50

If more or less Sections are required, add or deduct, per Section, - - - - - 18.50

If with Polished Brass Waste Pipe and Trap, as shown in Fig. 1043, add, - - - - - 13.75

CLOW'S ENAMELED IRON SECTIONAL WASHSTANDS.

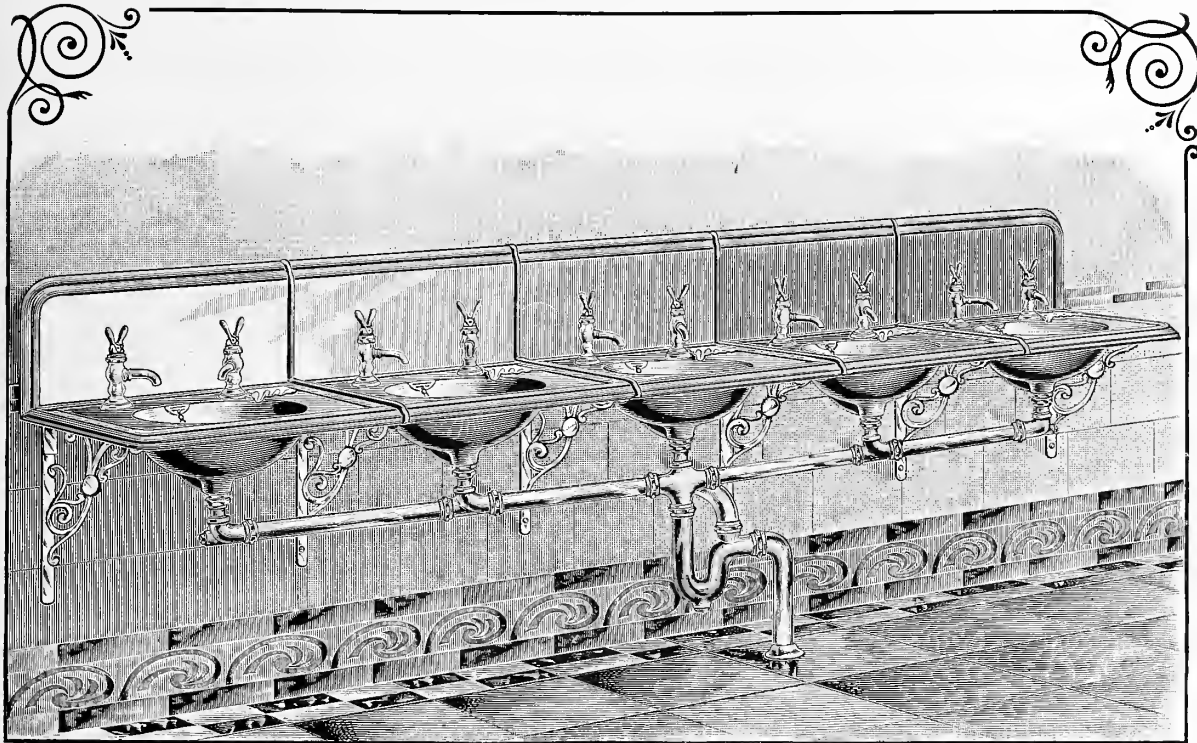


FIG. 1043.

Includes five Enameled Iron Sectional Washstands on Bronzed Brackets, with 12 x 15 inch Oval Patent Overflow Basins, Slab and Basin cast in one piece. Each Slab 24 x 17 inches, with 10½-inch Enameled Iron Back, Nickel-plated Doherty Self-closing Basin Cocks, Removable Nickel-plated Brass Overflow Strainer, and Overflow Coupling with Rubber Stopper, Polished Brass Waste Pipe, Brass S Trap, Vented to Wall and Waste to Floor. Price, as described. - - - - - \$100.00

If more or less Sections are required, add or deduct, per Section, - - - - - 19.25

ENAMELED IRON WARE.

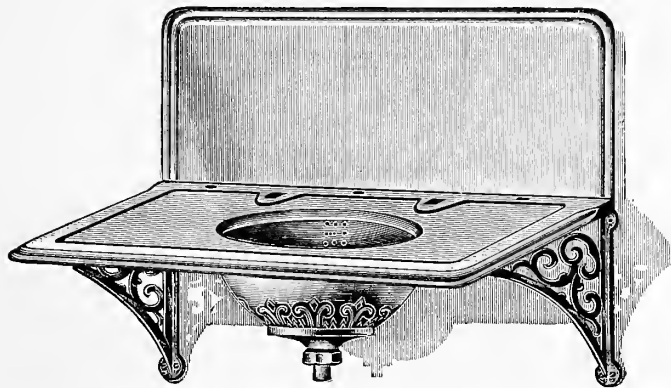


FIG. 1045. IMPROVED SLAB AND BOWL.

With Brackets, Patent Overflow Bowl, Nickel-plated Basin Plug, and Rubber Stopper. Dimensions of Slab, 20 x 30½ inches; height of Back, 9 inches; diameter of Bowl, 12½ inches; Slab and Bowl Enameled, with Bronzed Exterior.

Price, as described,	- - - - -	\$14.00
Price, Polished Brass Brackets extra,	- - - - -	5.00



FIG. 1046. COMMON OVERFLOW WASH BOWL WITH METAL PLUG.

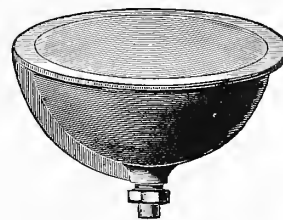


FIG. 1047. PATENT OVERFLOW WASH BOWL WITH RUBBER PLUG.

These Bowls are Enameled inside and Painted outside. Price includes Nickel-plated Plug and Stopper.

Price, 14-inch Common Overflow, each,	- - - - -	\$3.00
Price, 14-inch Patent Overflow, each,	- - - - -	3.50
Price, 16-inch Patent Overflow, each,	- - - - -	4.50

ENAMELED IRON WARE.



FIG. 1048.
COMBINED SLAB AND BOWL.

Length of Back, 22 inches; diameter of Bowl, $12\frac{1}{2}$ inches.



FIG. 1049.
CORNER COMBINED SLAB AND BOWL.

Length of Side, 16 inches; diameter of Bowl, $12\frac{1}{2}$ inches.

Slab and Bowl are Enameled inside and Bronzed outside. Patent Overflow Bowl, Nickel-plated Plug, Rubber Stopper, and Brass Coupling. Price, either style as described, each, - - - - - \$9.50



FIG. 1050. COMBINED SLAB AND BOWL
ON STANDARD.

Dimensions: Height to front of Slab, 30 inches; height to top of Back, 33 inches; length of Back, 22 inches; diameter of Bowl, $12\frac{1}{2}$ inches.



FIG. 1051. CORNER COMBINED SLAB AND BOWL
ON STANDARD.

Dimensions: Height to front of Slab, 30 inches; height to top of Back, 34 inches; length of Side, 16 inches; diameter of Bowl, $12\frac{1}{2}$ inches.

Slab and Bowl are Enameled inside, with Bronzed Standards. Patent Overflow Bowl, Nickel-plated Plug, Rubber Stopper, and Brass Coupling. Price, either style as described, each, - - - - - \$11.50

ENAMELED IRON WARE.

FIG. 1052.
COMBINED SLAB AND BOWL.Length of Back, 19 inches; diameter of Bowl, $12\frac{1}{2}$ inches.FIG. 1053.
CORNER COMBINED SLAB AND BOWL.Length of Side, $12\frac{1}{2}$ inches; diameter of Bowl, $12\frac{1}{2}$ inches.

Slab and Bowl are Enameled inside and Bronzed outside. Patent Overflow Bowl, Nickel-plated Plug, Rubber Stopper, and Brass Coupling. Price, either style as described, each, - - - - - \$7.50

FIG. 1054. COMBINED SLAB AND BOWL
ON STANDARD.

Dimensions: Height to front of Slab, 28 inches; height to top of Back, 32 inches; length of Back, 19 inches; diameter of Bowl, $12\frac{1}{2}$ inches.

FIG. 1055. CORNER COMBINED SLAB AND BOWL
ON STANDARD.

Dimensions: Height to front of Slab, 28 inches; height to top of Back, 32 inches; length of Side, $13\frac{1}{2}$ inches; diameter of Bowl, $12\frac{1}{2}$ inches.

Slab and Bowl are Enameled inside, with Bronzed Standards. Patent Overflow Bowl, Nickel-plated Plug, Rubber Stopper, and Brass Coupling. Price, either style as described, each, - - - - - \$9.50

ENAMELED IRON WARE.



FIG. 1056. WASHSTAND ON FRAME.

Height, 31 inches; length on Top, $24\frac{1}{2}$ inches;
diameter of Bowl, $12\frac{1}{2}$ inches.

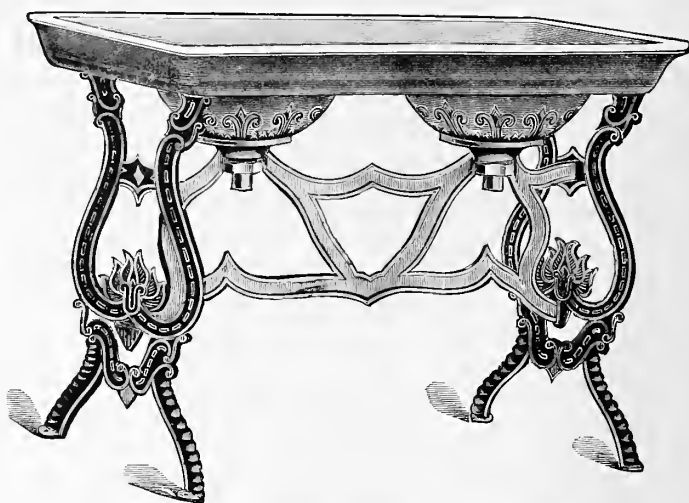


FIG. 1057. TWO-BOWL WASHSTAND ON FRAME.

Height, $31\frac{1}{2}$ inches; length on Top, 46 inches;
diameter of Bowls, $12\frac{1}{2}$ inches.

Slab and Bowls Enameled inside, with Bronzed Frames, Patent Overflow Bowls, Nickel-plated Plug, Rubber Stopper, and Brass Coupling.

Price, Fig. 1056, as described, each, - - - - -

\$11.00

Price, Fig. 1057, as described, - - - - -

22.00



FIG. 1058. WASHSTAND ON STANDARD.

Height, 29 inches; length on Top, $24\frac{1}{2}$ inches;
diameter of Bowl, $12\frac{1}{2}$ inches.



FIG. 1059. TWO-BOWL WASHSTAND ON STANDARDS.

Height, 32 inches; length on Top, 41 inches;
diameter of Bowls, $12\frac{1}{2}$ inches.

Slab and Bowls Enameled inside, with Bronzed Standards, Patent Overflow Bowls, Nickel-plated Plug, Rubber Stopper, and Brass Coupling.

Price, Fig. 1058, as described, each, - - - - -

\$11.00

Price, Fig. 1059, as described, - - - - -

23.00

ENAMELED IRON WARE.

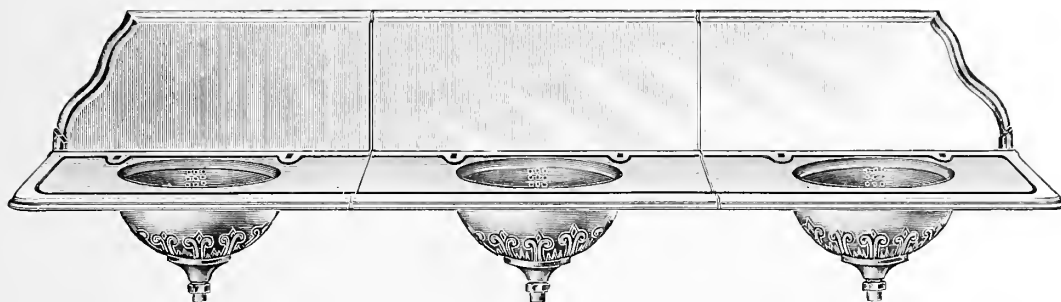


FIG. 1060. IMPROVED SECTIONAL SLABS AND BOWLS.

Three Patent Overflow Bowls with Slabs and Backs Enameled, Nickel-plated Plug, Rubber Stopper with Nickel-plated Union Strips. Dimensions: Total length, 72 inches; width, 18½ inches; height of Back, 10 inches; diameter of Bowls, 12½ inches. Price, as described, - - - - - \$39.00

Brackets extra. Plain, \$1.00; Galvanized, \$1.50; Enameled, \$1.50, each.

Slabs can also be furnished either 18 or 21 inches long each.

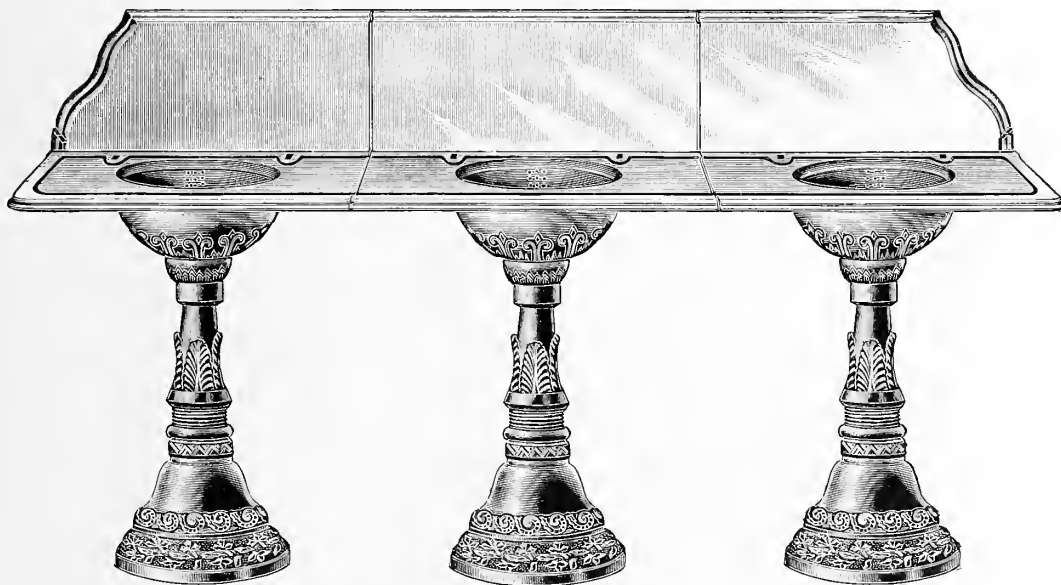


FIG. 1061. SECTIONAL WASHSTAND ON STANDARDS.

Patent Overflow Bowls, Nickel-plated Plugs, Rubber Stoppers, and Brass Couplings; Bowls, Slabs, and Backs Enameled, on Bronzed Standards. Dimensions: Height to front of Slab, 28 inches; height to top of Back, 38½ inches; length per Section, 24 inches; diameter of Bowls, 12½ inches.

Price, as described, per Section, - - - - - \$15.00
 Price, as described, without Standards, per Section, - - - - - 13.00

Brackets extra. Plain, \$1.00; Galvanized, \$1.50; Enameled, \$1.50, each.

ENAMELED IRON WARE.

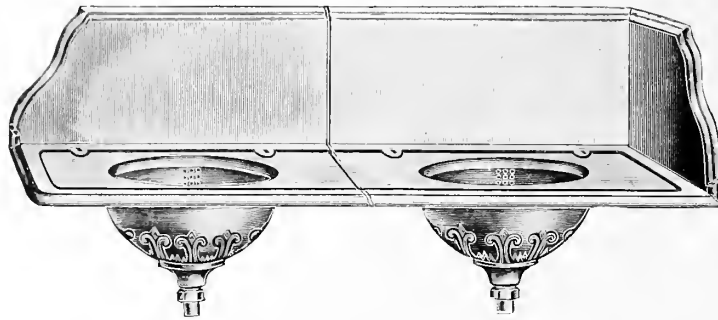


FIG. 1062. IMPROVED SECTIONAL SLABS AND BOWLS.

With Right-hand End Piece. Two Patent Overflow Bowls, Nickel-plated Plugs, Rubber Stoppers, and Nickel-plated Union Strips; Bowls, Slabs, and Backs Enameled. Total length, 48 inches; width, $18\frac{1}{2}$ inches; height of Back, 19 inches; diameter of Bowls, $12\frac{1}{2}$ inches. Price, as described, - - - - - \$29.00

Brackets extra. Plain, \$1.00; Galvanized, \$1.50; Enameled, \$1.50, each.

Slabs can also be furnished either 18 or 21 inches long each, and with Left-hand End Piece.

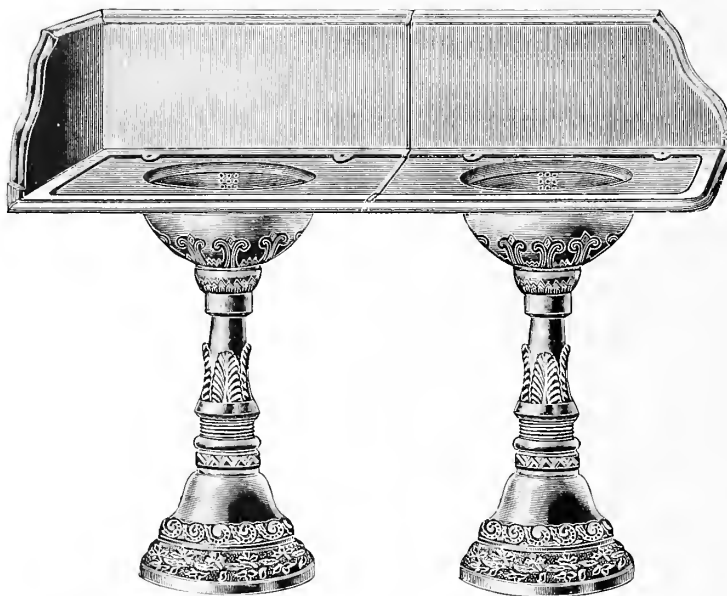


FIG. 1063. SECTIONAL WASHSTAND.

With Left-hand End Piece. Two Patent Overflow Bowls, Nickel-plated Plugs, Rubber Stoppers, and Nickel-plated Union Strips, on Bronzed Standards; Bowls, Slabs, and Backs Enameled. Height to front of Slab, 28 inches; height to top of Back, $38\frac{1}{4}$ inches; length of Back, 48 inches; diameter of Bowls, $12\frac{1}{2}$ inches. Price, as described, - - - - - \$33.00

Additional Sections furnished at one-half of above price each.

This Stand can also be furnished with Right-hand End Section instead of Left-hand, as shown, at same price.

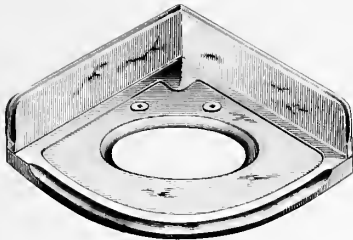
MARBLE.

FIG. 1064. CORNER SLAB, WITH TWO BACKS.

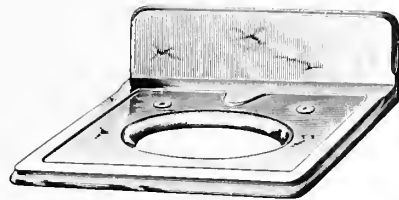


FIG. 1065. SINGLE BACK SLAB.

CORNER SLABS.—Fig. 1064.

SIZE OF SLAB INCHES	19 x 19	* 20 x 20	21 x 21	22 x 22	24 x 24
NUMBER OF FEET IN SLAB WITH 8-INCH BACKS .	5 ft. 3 in.	5 ft. 9 in.	6 ft. 3 in.	6 ft. 6 in.	7 ft. 6 in.
NUMBER OF FEET IN SLAB WITH 10-INCH BACKS .	6 ft. 9 in.	7 ft. 2 in.	7 ft. 7 in.	8 ft. 1 in.	9 ft.
NUMBER OF FEET IN SLAB WITH 12-INCH BACKS .	7 ft. 7 in.	8 ft. 1 in.	8 ft. 7 in.	9 ft.	10 ft. 1 in.

SINGLE BACK SLABS.—Fig. 1065.

SIZE OF SLAB INCHES	* 19 x 24	20 x 24	20 x 26	20 x 28	* 20 x 30
NUMBER OF FEET IN SLAB WITH 8-INCH BACK .	5 ft. 3 in.	5 ft. 6 in.	6 ft.	6 ft. 4 in.	6 ft. 8 in.
NUMBER OF FEET IN SLAB WITH 10-INCH BACK .	5 ft. 7 in.	5 ft. 11 in.	6 ft. 3 in.	6 ft. 8 in.	7 ft. 2 in.
NUMBER OF FEET IN SLAB WITH 12-INCH BACK .	6 ft.	6 ft. 2 in.	6 ft. 8 in.	7 ft. 1 in.	7 ft. 7 in.

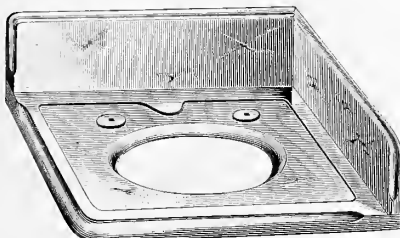


FIG. 1066. RIGHT-HAND END SLAB.

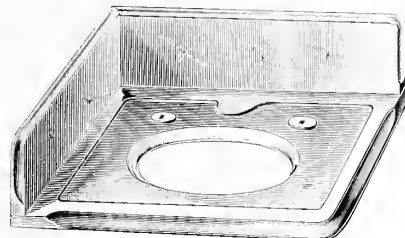


FIG. 1067. LEFT-HAND END SLAB.

RIGHT OR LEFT HAND END SLABS.—Figs. 1066 and 1067.

SIZE OF SLAB INCHES	* 19 x 24	20 x 24	20 x 26	20 x 28	* 20 x 30
NUMBER OF FEET IN SLAB WITH 8-INCH BACKS .	6 ft. 4 in.	6 ft. 7 in.	7 ft.	7 ft. 6 in.	7 ft. 9 in.
NUMBER OF FEET IN SLAB WITH 10-INCH BACKS .	6 ft. 11 in.	7 ft. 2 in.	7 ft. 7 in.	8 ft. 1 in.	8 ft. 6 in.
NUMBER OF FEET IN SLAB WITH 12-INCH BACKS .	7 ft. 6 in.	7 ft. 10 in.	8 ft. 4 in.	8 ft. 9 in.	9 ft. 2 in.

Slabs ordered without Backs or Sides cost more per square foot.

Slabs for Combination Cocks and Oval Bowls must not be less than 22 inches wide.

All Slabs have 8-inch Backs, unless otherwise ordered.

In ordering Slabs be particular to state size, kind of Marble, number of Cock Holes, if for Chain Stay and Clamps, size of Bowl, and whether round, oval, or square.

In calculating measurements add one inch to each finished edge.

We carry in stock every size named in our list in Italian Marble, cut with two Cock Holes, 14-inch Round Bowl, and for Basin Clamps. When wanted for one Cock Hole the same Slab can be used by using either a Chain Stay (see Fig. 857) or Cock Hole Plug (see Fig. 862).

* All sizes marked we carry in Dark Tennessee Marble, cut as above, with either 8-inch or 10-inch Backs.

Average weight of Marble Slabs boxed, 12½ pounds per square foot.

MARBLE.



FIG. 1068. RECESS SLAB WITH BACK AND TWO ENDS.

This Slab finishes flush with the wall. Recess Slabs vary so in size that a table of measurements would be of no benefit.

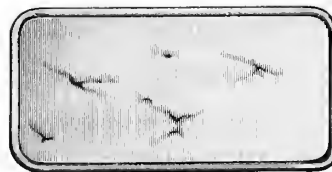


FIG. 1069. RADIATOR TOP.

In measuring allow about $\frac{3}{4}$ inch projection all around. We strongly recommend the use of Pink Knoxville or No. 2 Tennessee Marble for Radiator Tops. It presents a very handsome appearance and does not stain. They also make good Radiator Bottoms.

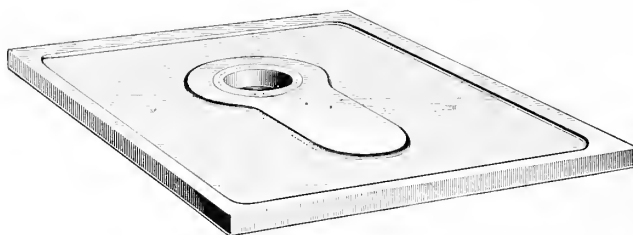


FIG. 1070. MARBLE FLOOR SLAB FOR CLOSETS.

Floor Slabs for Closets, Lavatories, or Bath Tubs will always be sent with unpolished square edges and corners. Where Slabs are to be drilled for pipes, diagram should be furnished giving exact distances to centers of openings.



FIG. 1071. SECTIONAL CUT SHOWING O. G. MOULDING.

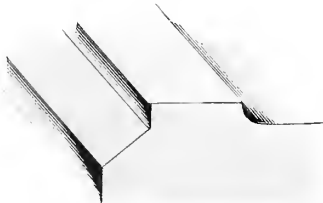


FIG. 1072. SECTIONAL CUT SHOWING FILLET AND CHAMFER MOULDING.



FIG. 1073. SECTIONAL CUT SHOWING PLAIN CHAMFER MOULDING.

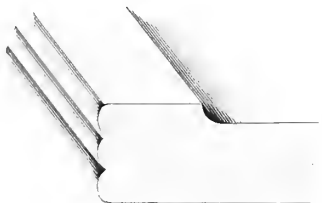
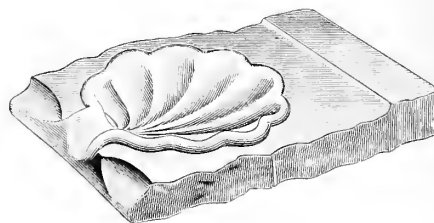


FIG. 1074. SECTIONAL CUT SHOWING TRIPLE BEAD MOULDING.

FIG. 1075.
"FANCY" SHELL SOAP CUP.

We are prepared to furnish Lavatories in the following grades of Fancy Marbles: African, St. Baume, French Jasper, Rouge Royal, American, Tennessee, Florence, Italian, and Florentine. Mexican, Arizona, and Algerian Onyx.

CLOW'S "ROMAN" PORCELAIN BATHS.

GLAZED INSIDE AND ON THE ROLLED RIM.

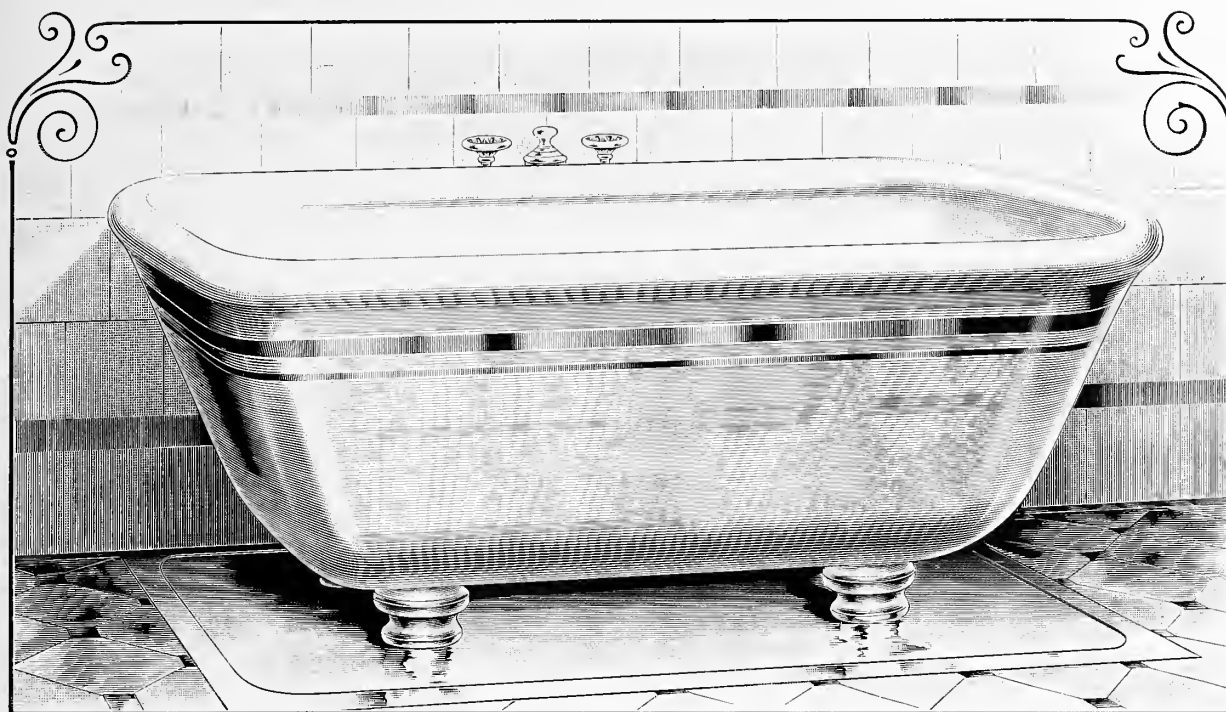


FIG. 1076.

Includes Porcelain Rolled Edge Bath with Italian Marble Legs, finished Nickel-plated Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes to Floor.

DIMENSIONS AND PRICES.

[illegible]

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

[illegible]

CLOW'S PORCELAIN BATHS.

ROLLED EDGE. GLAZED INSIDE AND OVER THE ROLLED RIM.



FIG. 1077.

Includes Porcelain Rolled Edge Bath with Italian Marble Legs, finished Nickel-plated Ideal Waste and Overflow, Bell Supply Fittings, and Supply Pipes to Floor.

DIMENSIONS AND PRICES.

Size of Tub,		5 ft.	5½ ft.	6 ft.
Length outside,	Inches	62	68	74
Length, including Fixtures,	Inches	68	74	80
Width outside,	Inches	31	31	31
Depth inside,	Inches	22	22	22
No. 1. With Decorated Exterior in Ivory-white and finished Nickel-plated Waste and Bell Supply Fittings, with Supply Pipes, complete,	\$211.00	\$221.00	\$231.00	
No. 2. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, Bell Supply Fittings, with Supply Pipes, complete,	215.00	225.00	235.00	
No. 3. With Glazed Exterior, finished Nickel-plated Waste, Bell Supply Fittings, with Supply Pipes, complete, as shown,	230.00	240.00	250.00	

DIMENSIONS AND PRICES OF 1¼-INCH ITALIAN MARBLE SLABS FOR ABOVE.

Size of Tub,		5 ft.	5½ ft.	6 ft.
Size of Slab,	Inches	69 x 33	75 x 33	81 x 33
Price, with Nickel-plated Safe Waste Grate,	\$24.50	\$26.75	\$29.00	

CLOW'S PORCELAIN-LINED IRON BATHS.
WHITE ENAMELED. ROLLED RIM.



FIG. 1078.

Includes Nickel-plated Brass Shower, with Hand Spray and Curtain. Price of Shower complete as shown.

\$48.00

NOTE.—The above illustration shows one of our most desirable Showers attached to Bath. If any other pattern Shower is preferred, refer to Figs. 1119 to 1125, any of which can be attached to our Porcelain or Enameled Baths. To obtain price of any combination, add list of Shower and Bath wanted.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.

PATENTED FLAT EXTENSION.

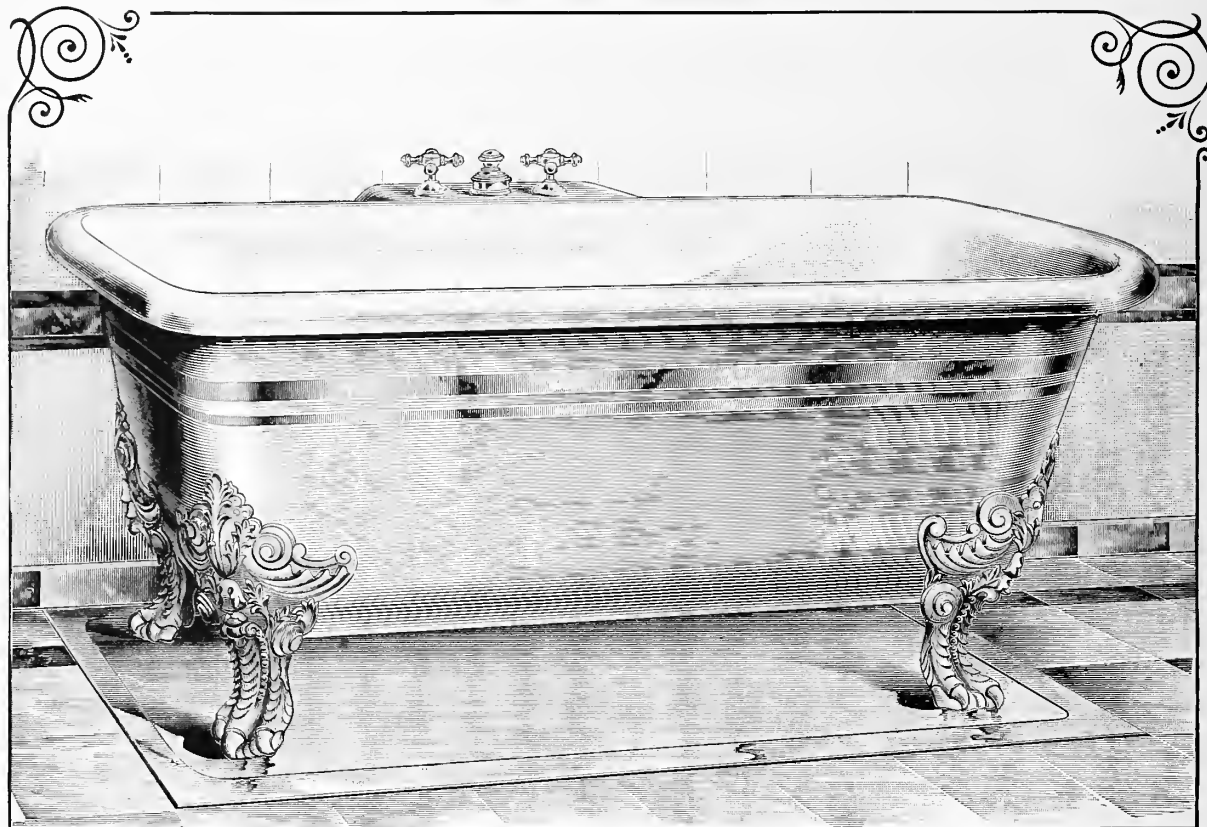


FIG. 1079.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim with Flat Extension, Decorated Exterior in Ivory-white and Gold Bands, Ornamental Feet, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes to floor. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.
Length over Rim,	55	60	66	72
Width over Extension,	34½	34½	34½	34½
Depth inside,	21	21	21	21
Height on Legs,	26½	26½	26½	26½
No. 1. With Plain Exterior and finished Nickel-plated Waste and Overflow, Bell Supply Fittings and Supply Pipes to floor, complete,	\$101.00	\$105.00	\$109.00	\$114.00
No. 2. With Decorated Exterior in Ivory-white and finished Nickel-plated Waste, Bell Supply Fittings and Supply Pipes to floor, all complete,	117.00	121.00	125.00	130.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, Bell Supply Fittings and Supply Pipes to floor, all complete as shown,	121.00	125.00	129.00	134.00

With Electro-bronzed Legs add \$1.50 each, Polished Brass Legs add \$10.00 each, Nickel-plated Brass Legs add \$11.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.
Size of Slab,	55 x 36½	60 x 36½	66 x 36½	72 x 36½
Price, with Nickel-plated Safe Waste Grate,	\$23.25	\$25.25	\$27.75	\$30.50

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.



FIG. 1080.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim, Decorated Exterior in Ivory-white and Gold Bands, Ornamental Feet, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.
Length over Rim,	Inches	55	60	66	72
Width over Rim,	Inches	31	31	31	31
Width, including Fittings,	Inches	35	35	35	35
Depth inside,	Inches	21	21	21	21
Height on Legs,	Inches	26½	26½	26½	26½
No. 1. With Plain Exterior and finished Nickel-plated Waste and Bell Supply Fittings, with Supply Pipes,		\$ 99.00	\$103.00	\$107.00	\$112.00
No. 2. With Decorated Exterior in Ivory-white and finished Nickel-plated Waste and Bell Supply Fittings, with Supply Pipes,		115.00	118.00	122.00	127.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste and Bell Supply Fittings, with Supply Pipes, complete as shown,		119.00	122.00	126.00	131.00

With Electro-bronzed Legs add \$1.50 each, Polished Brass Legs add \$10.00 each, Nickel-plated Brass Legs add \$11.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.
Size of Slab,	Inches	55 x 37	60 x 37	66 x 37	72 x 37
Price, with Nickel-plated Safe Waste Grate,		\$23.25	\$25.25	\$27.75	\$30.50

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.

PATENTED FLAT EXTENSION.



FIG. 1081.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim and Flat Extension. Decorated Exterior in Ivory-white, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes to floor. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.
Length over Extension,	Inches	56½	62½	67½	73½
Width over Rim,	Inches	29	29	29	29
Depth inside,	Inches	20	20	20	20
Height on Legs,	Inches	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste, Bell Supply Fittings and Supply Pipes to floor, complete,		\$ 85.00	\$ 89.00	\$ 94.00	\$ 99.00
No. 2. With Decorated Exterior in Ivory-white, finished Nickel-plated Waste, Bell Supply Fittings and Supply Pipes to floor, all complete as shown,		101.00	105.00	110.00	115.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, Bell Supply Fittings and Supply Pipes to floor, all complete,		105.00	109.00	114.00	119.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

For dimensions of above, and prices and sizes of Marble Floor Slabs, see page 228.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.

PATENTED FLAT EXTENSION.

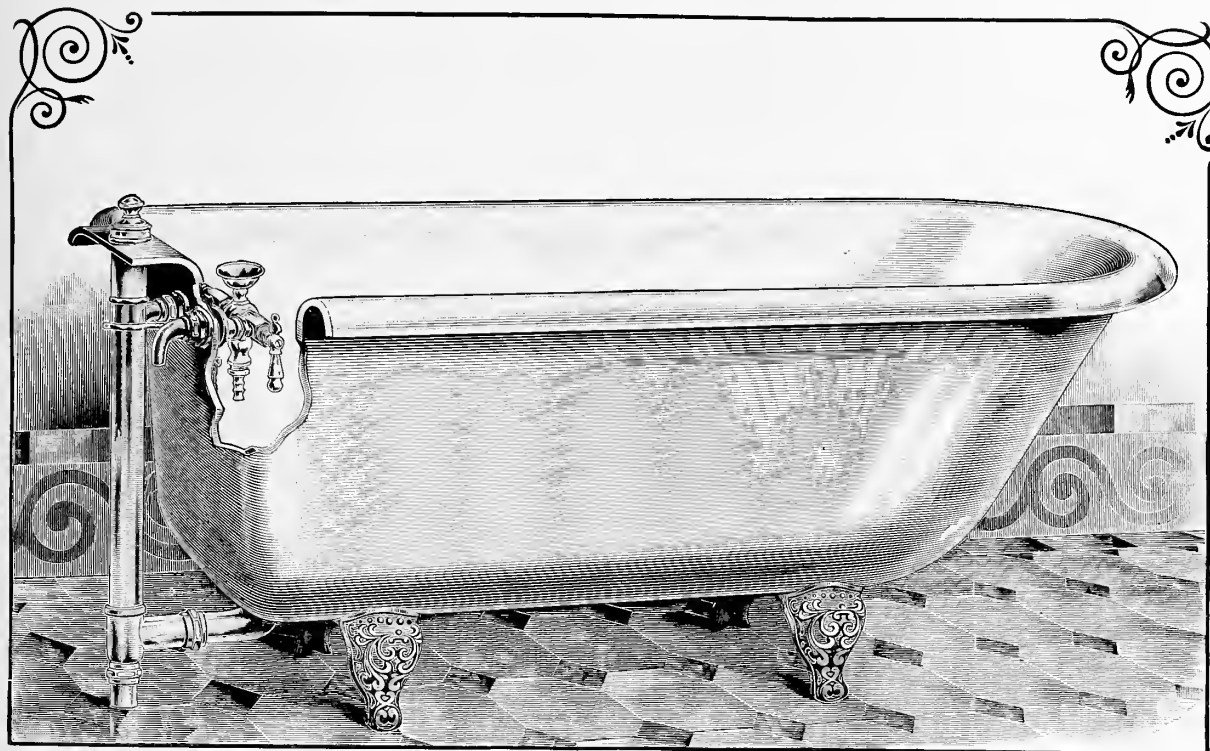


FIG. 1082.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim and Flat Extension, Decorated Exterior in Ivory-white, Ideal Waste and Overflow, No. 4½ Fuller Double Bath Cock. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub, - - - - -	4 ft.	4½ ft.	5 ft.	5½ ft.
Length over Extension, - - - - - Inches	56½	62½	67½	73½
Width over Rim, - - - - - Inches	29	29	29	29
Depth inside, - - - - - Inches	20	20	20	20
Height on Legs, - - - - - Inches	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, all complete, - - - - -	\$65.00	\$69.00	\$74.00	\$79.00
No. 2. With Decorated Exterior in Ivory-white, and finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, all complete as shown, - - - - -	81.00	85.00	90.00	95.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, all complete, - - - - -	85.00	89.00	94.00	99.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs, add \$3.00 each.

With Nickel-plated Supplies, add \$4.00 per pair; Nickel-plated Supplies with Air Chambers, add \$6.00 per pair.

For dimensions of above, and prices and sizes of Marble Floor Slabs, see page 228.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.



FIG. 1083.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim, Decorated Exterior in Ivory-white and Gold Bands, Ideal Waste and Overflow, Trap and Bell Supply Fittings and Supply Pipes. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim, - - - - -	Inches 54	60	65	71	77
Length, including Fittings, - - - - -	Inches 58	64	69	75	81
Width over Rim, - - - - -	Inches 29	29	29	29	29
Depth inside, - - - - -	Inches 18½	18½	18½	18½	18½
Height on Legs, - - - - -	Inches 27	27	27	27	27
No. 1. With Plain Exterior and finished Nickel-plated Waste, Trap, Bell Supply Fittings and Supply Pipes, -	\$ 88.00	\$ 92.00	\$ 97.00	\$112.00	\$117.00
No. 2. With Decorated Exterior in Ivory-white and Finished Nickel-plated Waste, Trap, Bell Supply Fittings and Supply Pipes, -	104.00	108.00	113.00	118.00	123.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, Trap, Bell Supply Fittings, Supply Pipes, complete as shown, -	108.00	112.00	117.00	122.00	127.00

With Electro-bronzed or Nickel-plated Iron Legs, add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab, - - - - -	Inches 61 x 31	67 x 31	72 x 31	78 x 31	86 x 31
Price, with Nickel-plated Safe Waste Grate, - - - - -	\$20.25	\$22.75	\$24.50	\$26.50	\$29.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.



FIG. 1084.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim, Decorated Exterior in Ivory-white and Gold Bands, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	54	60	65	71	77
Length, including Fittings,	58	64	69	75	87
Width over Rim,	29	29	29	29	29
Depth inside,	20	20	20	20	20
Height on Legs,	26	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste, Bell Supply Fittings and Supply Pipes,	\$ 83.00	\$ 87.00	\$ 92.00	\$ 97.00	\$112.00
No. 2. With Decorated Exterior in Ivory-white and finished Nickel-plated Waste, Bell Supply Fittings and Supplies,	99.00	103.00	108.00	113.00	118.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, Bell Supply Fittings and Supply Pipes, complete as shown,	103.00	107.00	112.00	117.00	122.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	61 x 31	67 x 31	72 x 31	78 x 31	86 x 31
Price, with Nickel-plated Safe Waste Grate,	\$20.25	\$22.75	\$24.50	\$26.50	\$29.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.



FIG. 1085.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim, Decorated Exterior in Ivory-white and Gold Bands, Ideal Waste and Overflow, and Bell Supply Fittings. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub, - - - - -	Inches	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim, - - - - -	Inches	54	60	65	71	77
Length, including Fittings, - - - - -	Inches	58	64	69	75	81
Width over Rim, - - - - -	Inches	29	29	29	29	29
Depth inside, - - - - -	Inches	20	20	20	20	20
Height on Legs, - - - - -	Inches	26	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste and Bell Supply Fittings, - - - - -		\$ 80.00	\$ 84.00	\$ 90.00	\$ 96.00	\$102.00
No. 2. With Decorated Exterior in Ivory-white and finished Nickel-plated Waste and Bell Supply Fittings, - - - - -		96.00	100.00	106.00	112.00	118.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste and Bell Supply Fittings, complete as shown, - - - - -		100.00	104.00	110.00	116.00	122.00
With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.						

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub, - - - - -	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab, - - - - -	Inches	61 x 31	67 x 31	72 x 31	78 x 31	86 x 31
Price, with Nickel-plated Safe Waste Grate, - - - - -		\$20.25	\$22.75	\$24.50	\$26.50	\$29.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.

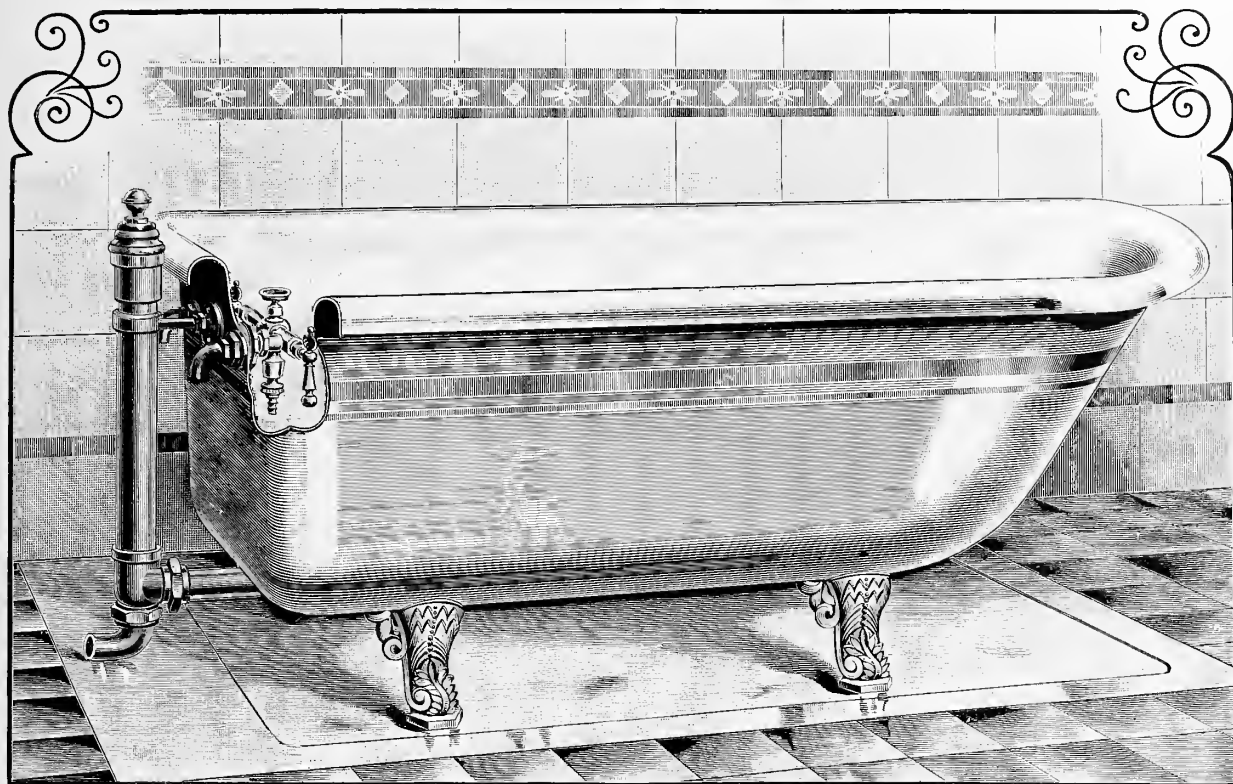


FIG. 1086.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim, Decorated Exterior in Ivory-white and Gold Bands, Ideal Waste, and No. 4½ Fuller Double Bath Cock. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub.	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim.	54	60	65	71	77
Length, including Fittings.	58	64	69	75	81
Width over Rim.	29	29	29	29	29
Depth inside.	20	20	20	20	20
Height on Legs.	26	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste, and No. 4½ Fuller Double Bath Cock.	\$63.00	\$67.00	\$72.00	\$77.00	\$82.00
No. 2. With Decorated Exterior in Ivory-white, and finished Nickel-plated Waste, and No. 4½ Fuller Double Bath Cock.	79.00	83.00	88.00	93.00	98.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, and No. 4½ Fuller Double Bath Cock, all complete as shown.	83.00	87.00	92.00	97.00	102.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

With Nickel-plated Supplies add \$4.00 per pair; Nickel-plated Supplies and Air Chambers add \$6.00 per pair.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	61 x 31	67 x 31	72 x 31	78 x 31	86 x 31
Price, with Nickel-plated Safe Waste Grate,	\$20.25	\$22.75	\$24.50	\$26.50	\$29.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.

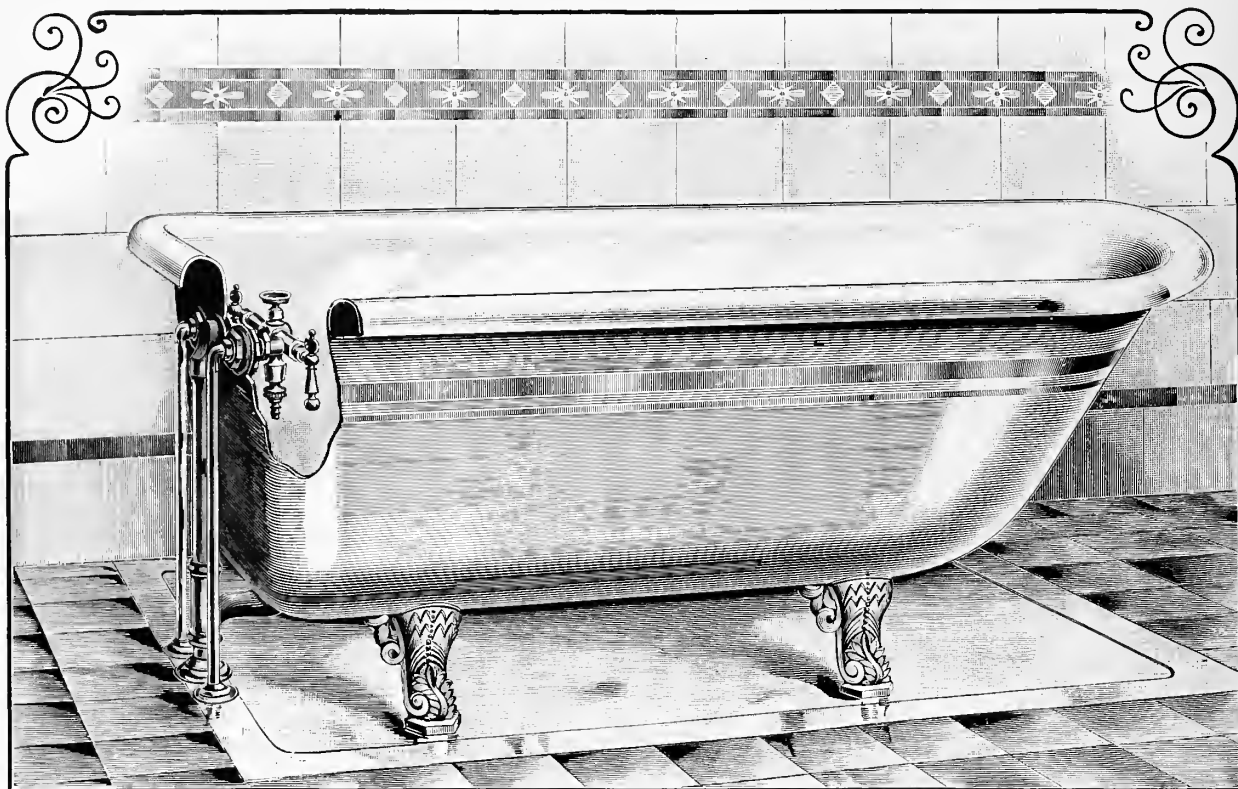


FIG. 1087.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim. Decorated Exterior in Ivory-white and Gold Bands, No. 4½ Nickel-plated Fuller Double Bath Cock, Supply Pipes to floor, Shampoo Sprinklers, Combined Overflow and Waste, with Rubber Stopper. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	-	-	-	-	-	-	-	Inches 54	60	65	71	77
Width over Rim,	-	-	-	-	-	-	-	Inches 29	29	29	29	29
Depth inside,	-	-	-	-	-	-	-	Inches 20	20	20	20	20
Height on Legs,	-	-	-	-	-	-	-	Inches 26	26	26	26	26
No. 1. With Plain Exterior and Nickel-plated No. 4½ Fuller Double Bath Cock, Supplies and Overflow, complete,	-	-	-	-	-	-	-	\$56.50	\$60.50	\$65.50	\$70.50	\$75.50
No. 2. With Decorated Exterior in Ivory-white and Nickel-plated No. 4½ Fuller Double Bath Cock, Supplies and Overflow, complete,	-	-	-	-	-	-	-	72.50	76.50	81.50	86.50	91.50
No. 3. With Decorated Exterior in Ivory-White and Gold Bands, Nickel-plated No. 4½ Fuller Double Bath Cock, Supplies and Overflow, complete as shown,	-	-	-	-	-	-	-	76.50	80.50	85.50	90.50	95.50

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	-	-	-	-	-	-	-	Inches 61 x 31	67 x 31	72 x 31	78 x 31	86 x 31
Price, with Nickel-plated Safe Waste Grate,	-	-	-	-	-	-	-	\$20.25	\$22.75	\$24.50	\$26.50	\$29.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED RIM.

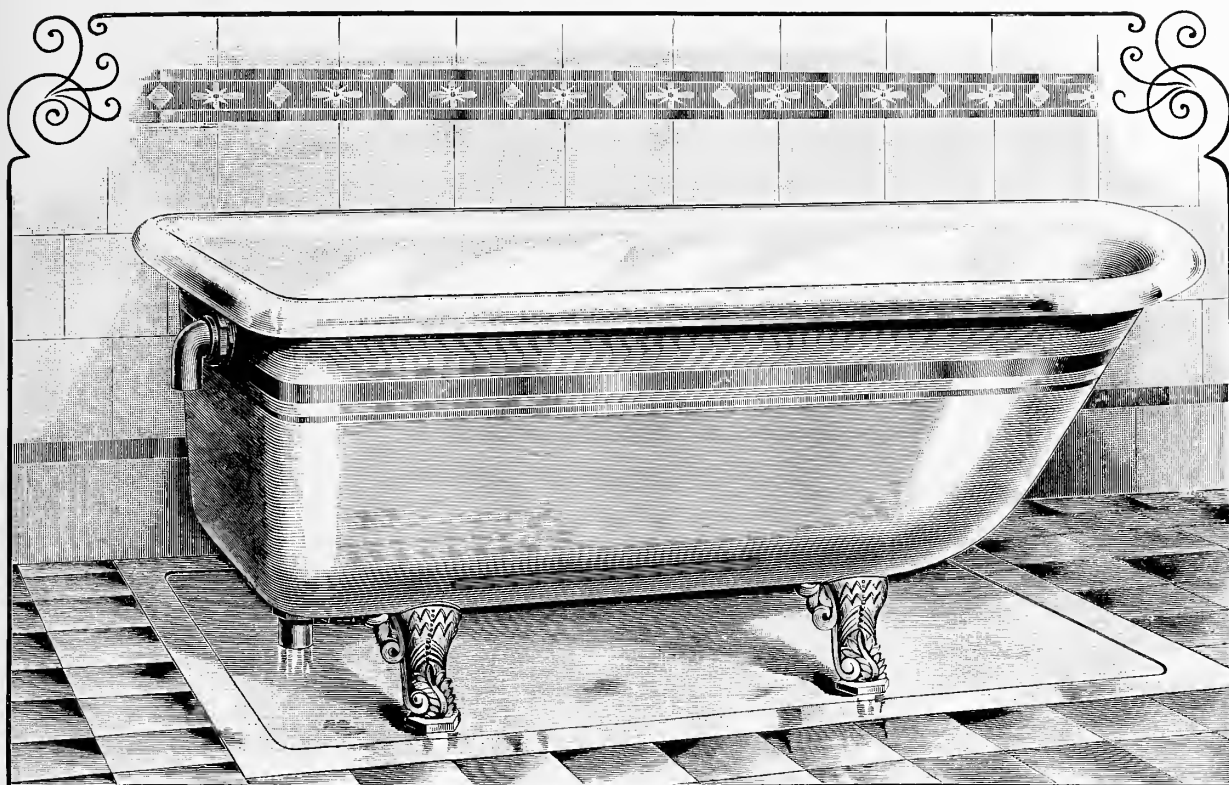


FIG. 1088.

Includes White Enameled Bath with 3-inch wide Enameled Rolled Rim, Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper.

DIMENSIONS AND PRICES.

Size of Tub, - - - - -		4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Depth over Rim, - - - - -	Inches	54	60	65	71	77
Width over Rim, - - - - -	Inches	29	29	29	29	29
Depth inside, - - - - -	Inches	20	20	20	20	20
Height on Legs, - - - - -	Inches	26	26	26	26	26
No. 1. With Plain Exterior and Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper, - - - - -		\$41.00	\$45.00	\$50.00	\$55.00	\$60.00
No. 2. With Decorated Exterior in Ivory-white and Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper, - - - - -		57.00	61.00	66.00	71.00	76.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper, complete as shown, - - - - -		61.00	65.00	70.00	75.00	80.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub, - - - - -		4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab, - - - - -	Inches	61 x 31	67 x 31	72 x 31	78 x 31	86 x 31
Price, with Nickel-plated Safe Waste Grate, - - - - -		\$20.25	\$22.75	\$24.50	\$26.50	\$29.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. FLAT RIM.

PATENTED FLAT EXTENSION.

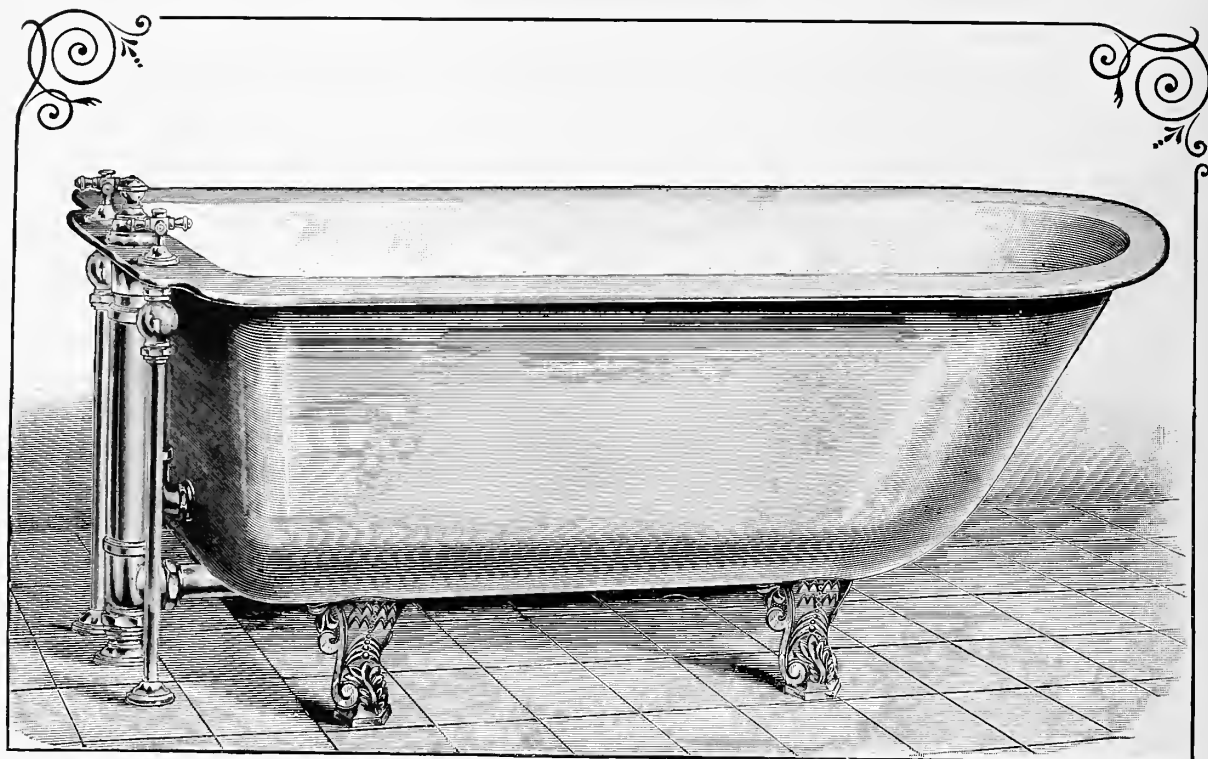


FIG. 1089.

Includes White Enameled Bath with 24-inch wide Enameled Flat Rim and Flat Extension, Decorated Exterior in Ivory-white, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes to Floor. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Extension,	Inches	56	62	67	73	79
Width over Rim,	Inches	28	28	28	28	28
Depth inside,	Inches	19	19	19	19	19
Height on Legs,	Inches	26	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste, Bell Supply Fittings, and Supply Pipes to Floor, complete,		\$ 82.00	\$ 86.00	\$ 91.00	\$ 96.00	\$101.00
No. 2. With Decorated Exterior in Ivory-white, finished Nickel-plated Waste, Bell Supply Fittings, and Supply Pipes to Floor, complete as shown,		98.00	102.00	107.00	112.00	117.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, Bell Supply Fittings, and Supply Pipes to Floor, all complete,		102.00	106.00	111.00	116.00	121.00
With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.						

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	Inches	60 x 31	66 x 31	71 x 31	77 x 31	83 x 31
Price, with Nickel-plated Safe Waste Grate,		\$20.50	\$22.50	\$24.25	\$26.25	\$28.25

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. FLAT RIM.

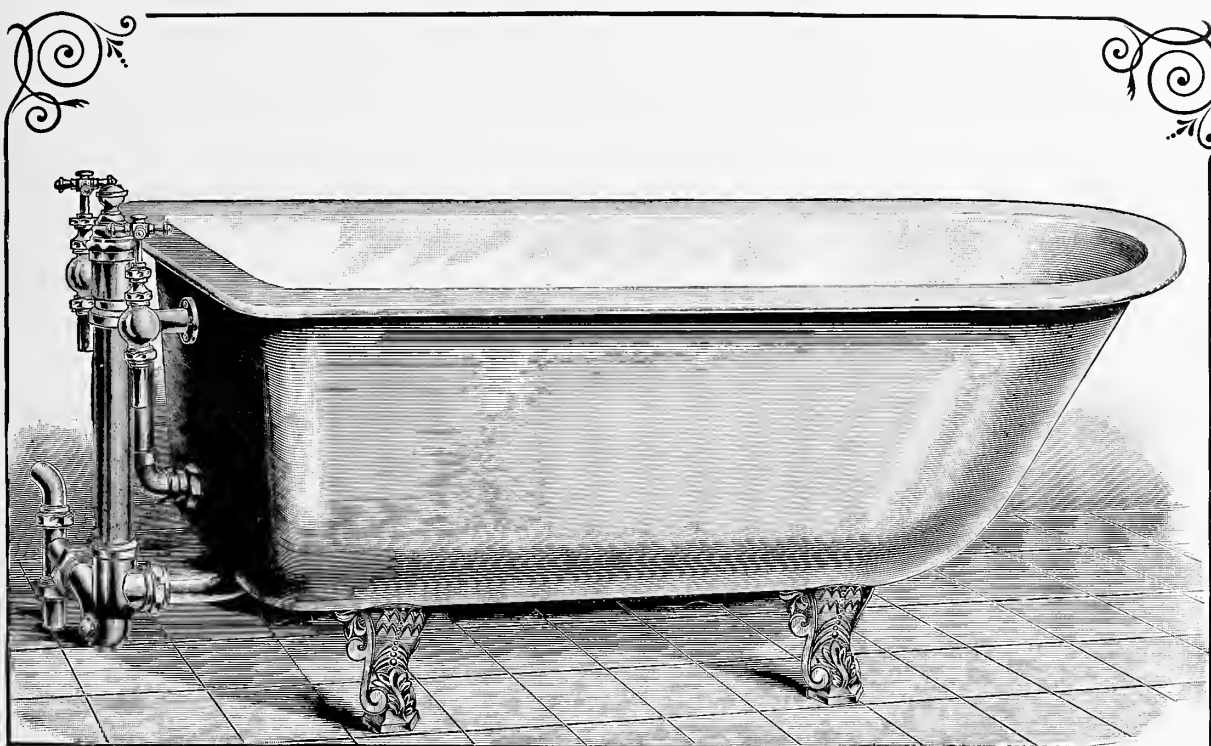


FIG 1090.

Includes White Enameled Bath, 24-inch wide Enameled Flat Rim, Decorated Exterior in Ivory-white, Ideal Waste and Overflow, Trap, and Bell Supply Fittings. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	-	-	-	-	-	-	-	-	-	53	59	64	70	76
Length, including Fittings,	-	-	-	-	-	-	-	-	-	57	63	68	74	80
Width over Rim,	-	-	-	-	-	-	-	-	-	28	28	28	28	28
Depth inside,	-	-	-	-	-	-	-	-	-	19	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	-	-	26	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste, Bell Supply Fittings and Trap, all complete,	-	-	-	-	-	-	-	-	-	\$ 81.00	\$ 85.00	\$ 90.00	\$ 95.00	\$100.00
No. 2. With Decorated Exterior in Ivory-white, finished Nickel-plated Waste, Bell Supply Fittings and Trap, complete as shown,	-	-	-	-	-	-	-	-	-	97.00	101.00	106.00	111.00	116.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, Bell Supply Fittings and Trap, all complete,	-	-	-	-	-	-	-	-	-	101.00	105.00	110.00	115.00	120.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	-	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	-	-	-	-	-	-	-	-	-	60 x 31	66 x 31	71 x 31	77 x 31	83 x 31
Price, with Nickel-plated Safe Waste Grate,	-	-	-	-	-	-	-	-	-	\$20.50	\$22.50	\$24.25	\$26.25	\$28.25

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. FLAT RIM.

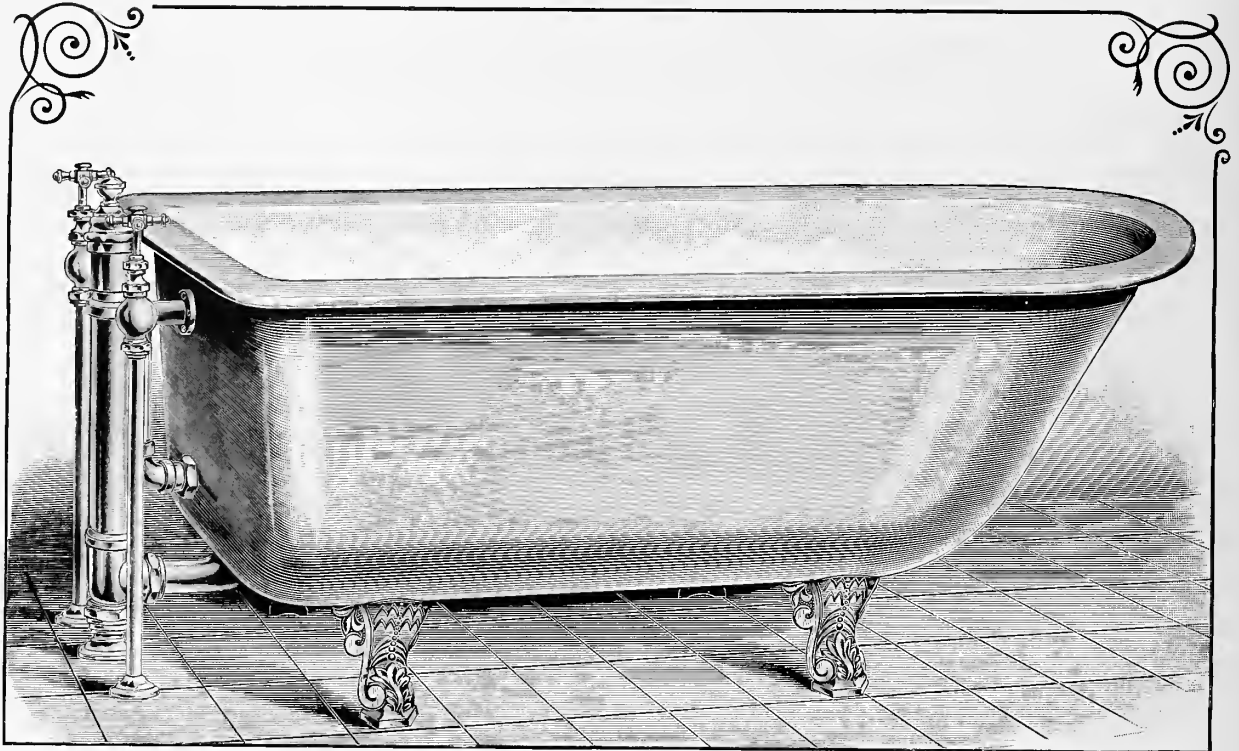


FIG. 1091.

Includes White Enameled Bath, 24-inch wide Enameled Flat Rim, Decorated Exterior in Ivory-white, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes to Floor. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	-	-	-	-	-	-	-	Inches	53	59	64	70	76
Length, including Fittings,	-	-	-	-	-	-	-	Inches	57	63	68	74	80
Width over Rim,	-	-	-	-	-	-	-	Inches	28	28	28	28	28
Depth inside,	-	-	-	-	-	-	-	Inches	19	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	Inches	26	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste and Bell Supply Fittings, all complete,	-	-	-	-	-	-	-		\$ 80.00	\$ 84.00	\$ 89.00	\$ 94.00	\$ 99.00
No. 2. With Decorated Exterior in Ivory-white and finished Nickel-plated Waste and Bell Supply Fittings, complete as shown,	-	-	-	-	-	-	-		96.00	100.00	105.00	110.00	115.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste and Bell Supply Fittings, all complete,	-	-	-	-	-	-	-		100.00	104.00	109.00	114.00	119.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	-	-	-	-	-	-	-	Inches	60 x 31	66 x 31	71 x 31	77 x 31	83 x 31
Price, with Nickel-plated Safe Waste Grate,	-	-	-	-	-	-	-		\$20.50	\$22.50	\$24.25	\$26.25	\$28.25

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. FLAT RIM.

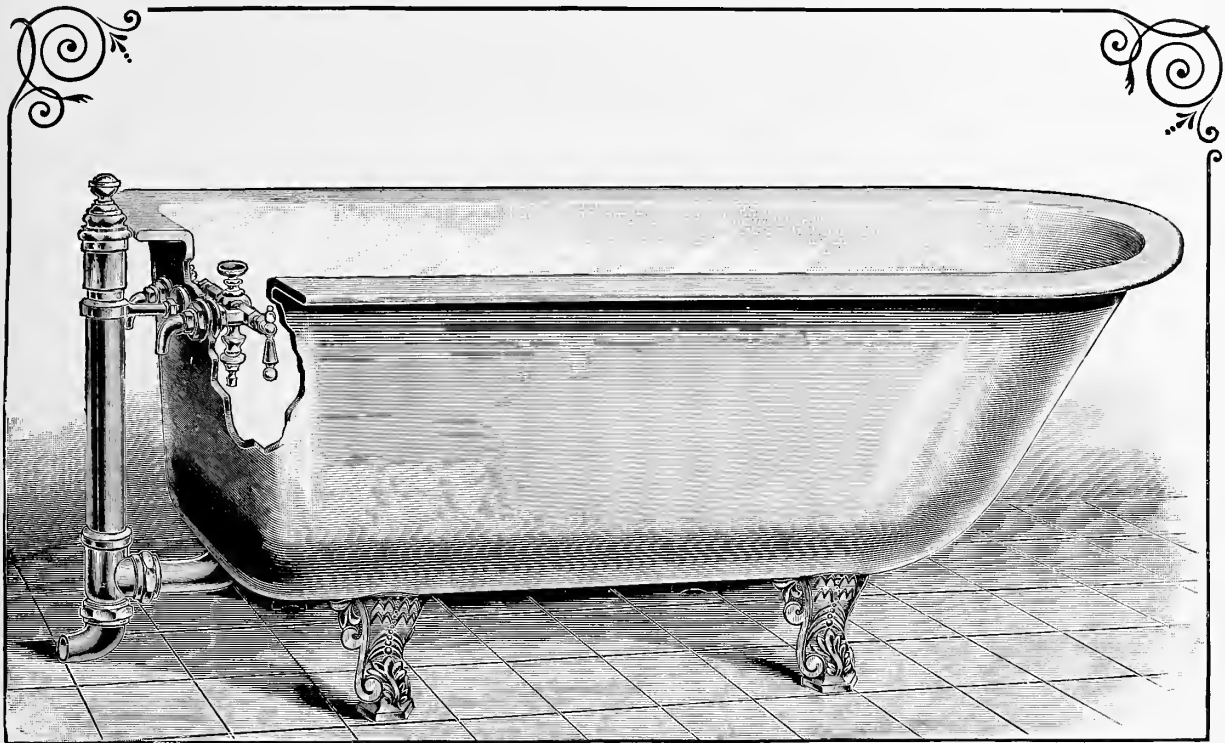


FIG. 1092.

Includes White Enameled Bath with 2½-inch wide Enameled Flat Rim, Ideal Waste and Overflow, and No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	-	-	-	-	-	-	-	-	Inches 53	59	64	70	76
Length, including Fittings,	-	-	-	-	-	-	-	-	Inches 57	63	68	74	80
Width over Rim,	-	-	-	-	-	-	-	-	Inches 28	28	28	28	28
Depth inside,	-	-	-	-	-	-	-	-	Inches 19	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	-	Inches 26	26	26	26	26
No. 1. With Plain Exterior and finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock and Shampoo Sprinkler, complete,	-	-	-	-	-	-	-	-	\$60.00	\$64.00	\$69.00	\$74.00	\$79.00
No. 2. With Decorated Exterior in Ivory-white, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock and Shampoo Sprinkler, complete as shown,	-	-	-	-	-	-	-	-	76.00	80.00	85.00	90.00	95.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock and Shampoo Sprinkler,	-	-	-	-	-	-	-	-	80.00	84.00	89.00	94.00	99.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

With Nickel-plated Supplies add \$4.00 per pair; with Nickel-plated Supplies and Air Chambers add \$6.00 per pair.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	-	-	-	-	-	-	-	-	62 x 31	66 x 31	71 x 31	77 x 31	83 x 31
Price, with Nickel-plated Safe Waste Grate,	-	-	-	-	-	-	-	-	\$20.50	\$22.50	\$24.25	\$26.25	\$28.25

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. FLAT RIM.

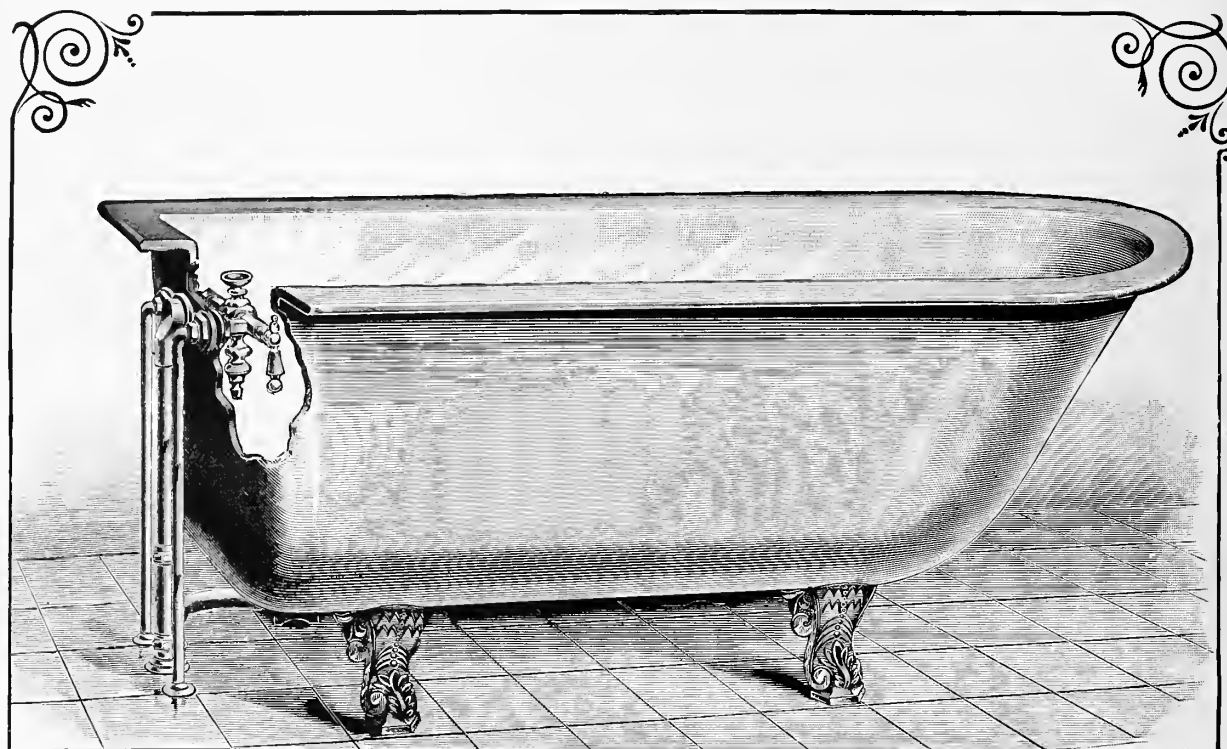


FIG. 1093.

Includes White Enameled Bath with 21-inch wide Enameled Rim, No. 4½ Nickel-plated Fuller Double Bath Cock, Supply Pipes to Floor, Shampoo Sprinkler, Combined Overflow and Waste with Rubber Stopper. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	53	59	64	70	76
Width over Rim,	28	28	28	28	28
Depth inside,	19	19	19	19	19
Height on Legs,	26	26	26	26	26
No. 1. With Plain Exterior and Nickel-plated No. 4½ Fuller Double Bath Cock, Supplies and Overflow, complete,	\$53.50	\$57.50	\$62.50	\$67.50	\$72.50
No. 2. With Decorated Exterior in Ivory-white, Nickel-plated No. 4½ Fuller Double Bath Cock, Supplies and Overflow, complete as shown,	69.50	73.50	78.50	83.50	88.50
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated No. 4½ Fuller Double Bath Cock, Supplies and Overflow, complete,	73.50	77.50	82.50	87.50	92.50

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	60 x 31	66 x 31	71 x 31	77 x 31	83 x 31
Price, with Nickel-plated Safe Waste Grate,	\$20.50	\$22.50	\$24.25	\$26.25	\$28.25

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. FLAT RIM.

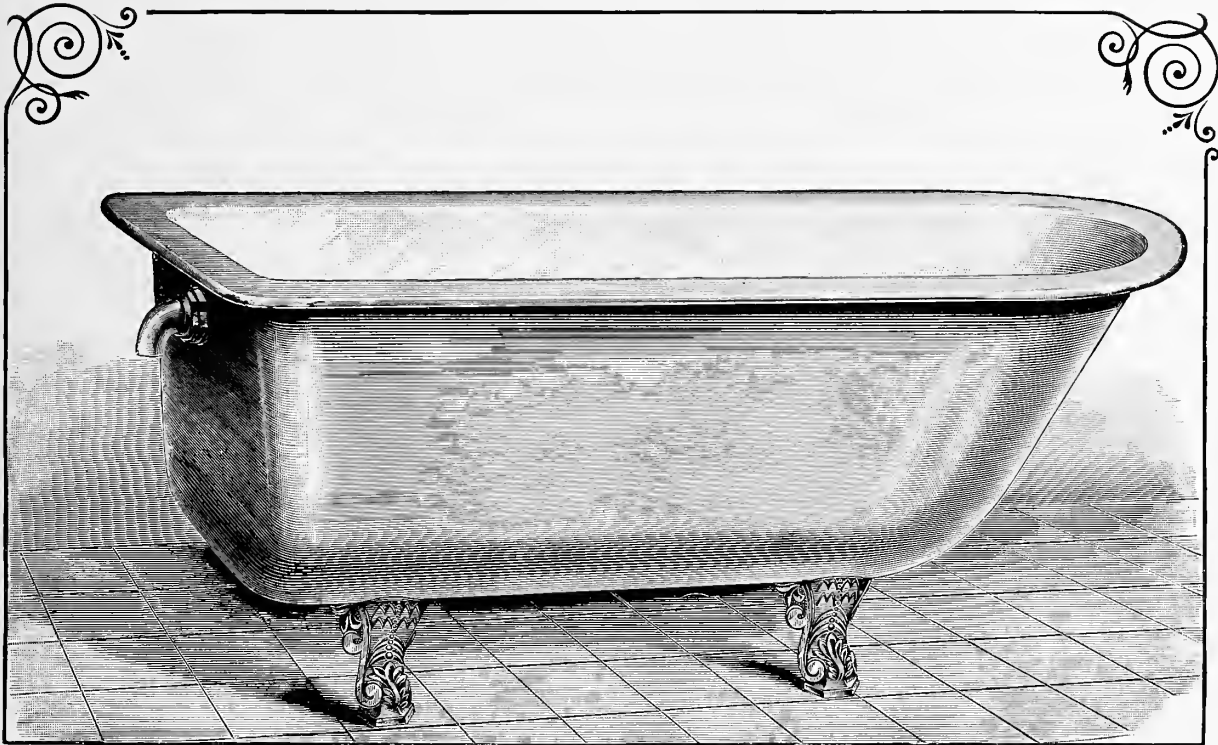


FIG. 1094.

Includes White Enameled Bath with 2½-inch wide Enameled Rim, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper.

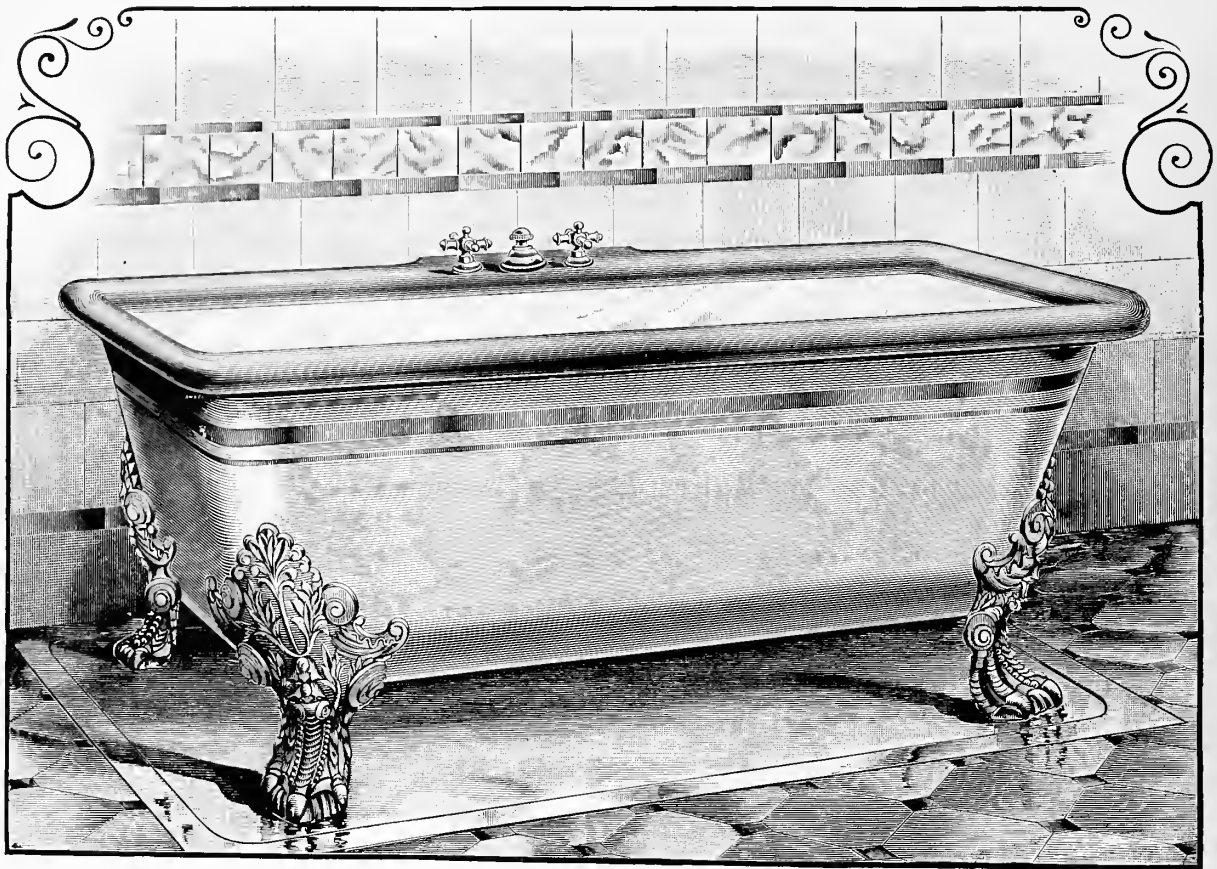
DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	-	-	-	-	-	-	-	-	Inches	53	59	64	70	76
Width over Rim,	-	-	-	-	-	-	-	-	Inches	28	28	28	28	28
Depth inside,	-	-	-	-	-	-	-	-	Inches	19	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	-	Inches	26	26	26	26	26
No. 1. With Plain Exterior and Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper, complete,	-	-	-	-	-	-	-	-		\$38.00	\$42.00	\$47.00	\$52.00	\$57.00
No. 2. With Decorated Exterior in Ivory-white, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper, complete, as shown,	-	-	-	-	-	-	-	-		54.00	58.00	63.00	68.00	73.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper, complete,	-	-	-	-	-	-	-	-		58.00	62.00	67.00	72.00	77.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$2.50 each, Nickel-plated Brass Legs add \$3.00 each.

HOSPITALS AND PUBLIC INSTITUTIONS.

This Tub will be furnished with Patent Overflow, Hot and Cold Water Supply, and Waste Connections, fitted for Iron Pipe. Add to above prices, - - - - - \$4.00

CLOW'S PORCELAIN-LINED IRON BATHS.**WHITE ENAMELED. ROLLED WOOD RIM.****FIG. 1095.**

Includes White Enameled Bath, Oak, Cherry or Walnut Rolled Rim, Decorated Exterior in Ivory-white and Gold Bands, Ornamental Legs, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes, all Rough Brass, Nickel-plated Tops and Strainer.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	-	-	-	-	-	-	-	53	59	65	71	77
Width over Rim,	-	-	-	-	-	-	-	29½	29½	29½	29½	29½
Width, including Fittings,	-	-	-	-	-	-	-	33½	33½	33½	33½	33½
Depth inside,	-	-	-	-	-	-	-	19	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	27	27	27	27	27
No. 1.	With Plain Exterior, Oak, Cherry, or Walnut Rim, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes, Rough Brass, N. P. Tops and Strainer, complete,	-	-	-	-	-	-	\$ 93.00	\$ 98.00	\$103.00	\$108.00	\$113.00
No. 2.	With Decorated Exterior in Ivory-white, Oak, Cherry, or Walnut Rim, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes, Rough Brass, N. P. Tops and Strainer, complete,	-	-	-	-	-	-	109.00	114.00	119.00	124.00	129.00
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, Oak, Cherry, or Walnut Rim, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes, Rough Brass, N. P. Tops and Strainer, complete as shown,	-	-	-	-	-	-	113.00	118.00	123.00	128.00	133.00
With Electro-bronzed Legs add \$1.50 each, Polished Brass Legs add \$10.00 each, Nickel-plated Brass Legs add \$11.50 each.												

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	-	-	-	-	-	-	-	53 x 36	59 x 36	65 x 36	71 x 36	77 x 36
Price, with Nickel-plated Safe Waste Grate,	-	-	-	-	-	-	-	\$23.25	\$25.25	\$27.75	\$30.50	\$31.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

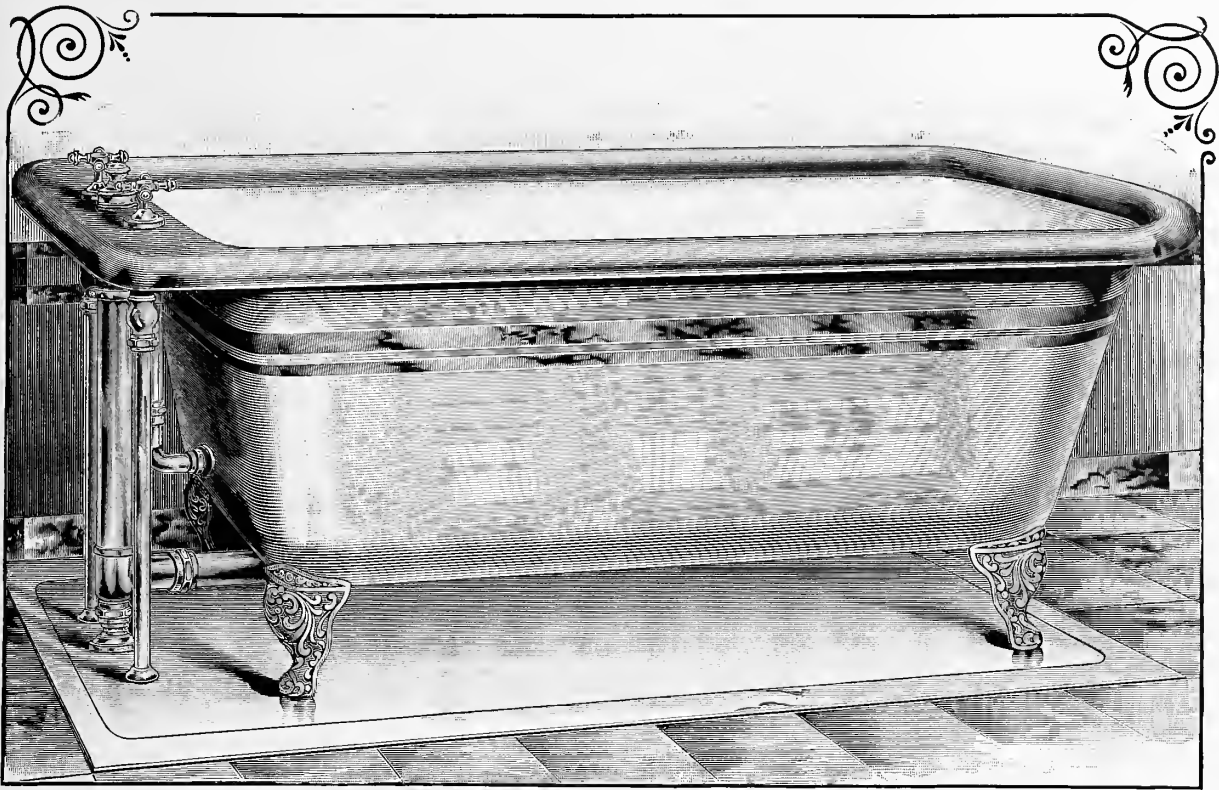


FIG. 1096.

Includes White Enameled Bath, Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes to floor. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.
Length,	Inches	48	54	60	66
Length over Rim,	Inches	58	64	70	76
Width at Top inside,	Inches	24½	24½	24½	24½
Width over Rim,	Inches	29½	29½	29½	29½
Depth inside,	Inches	19	19	19	19
Height on Legs,	Inches	27	27	27	27

No. 1.	With Plain Exterior, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings and Supply Pipes to floor, all complete,	\$ 88.00	\$ 93.00	\$ 98.00	\$103.00
No. 2.	With Decorated Exterior in Ivory-white, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings and Supply Pipes to floor, all complete,	104.00	109.00	114.00	119.00
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings and Supply Pipes to floor, complete as shown,	108.00	113.00	118.00	123.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs add \$3.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.
Size of Slab,	63 x 33	69 x 33	75 x 33	81 x 33
Price, with Nickel-plated Safe Waste Grate,	\$22.75	\$24.75	\$26.75	\$28.75

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

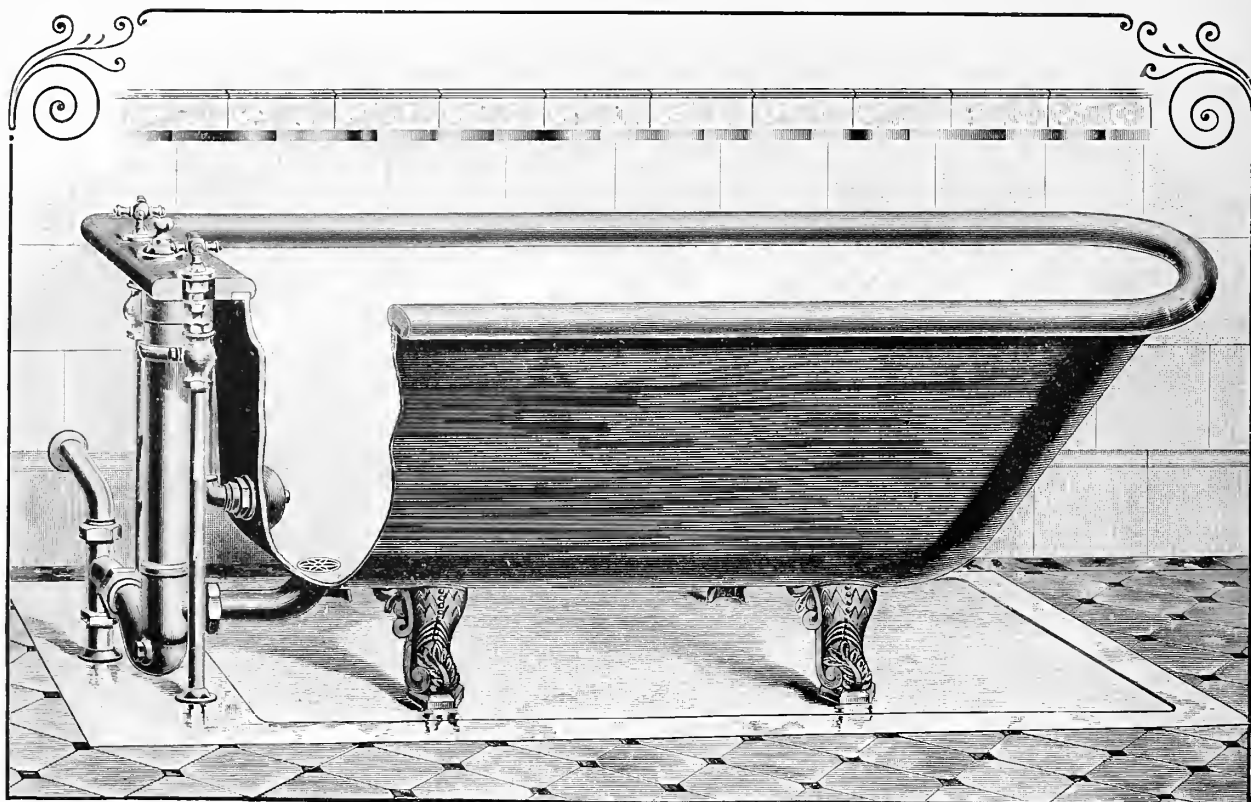


FIG. 1097.

Includes White Enameled Bath, Oak or Cherry Rim, Ideal Waste and Overflow, Half S Trap with Vent to Wall, Bell Supply Fittings and Supply Pipes to Floor. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	Inches	57	63	68	74	80
Width over Rim,	Inches	28	28	28	28	28
Depth inside,	Inches	19	19	19	19	19
Height on Legs,	Inches	27	27	27	27	27
No. 1. With Plain Exterior, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Half S Trap with Vent to Wall, Bell Supply Fittings and Supply Pipes, complete as shown,		\$74.50	\$78.00	\$82.50	\$87.00	\$91.50
No. 2. With Decorated Exterior in Ivory-white, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Half S Trap with Vent to Wall, Bell Supply Fittings and Supply Pipes, complete,		90.50	94.00	98.50	103.00	107.50
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Half S Trap with Vent to Wall, Bell Supply Fittings and Supply Pipes, complete,		94.50	98.00	102.50	107.00	111.50

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs add \$3.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	Inches	57 x 31	63 x 31	68 x 31	74 x 31	80 x 31
Price, with Nickel-plated Safe Waste Grate,		\$20.00	\$21.50	\$23.50	\$26.00	\$28.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

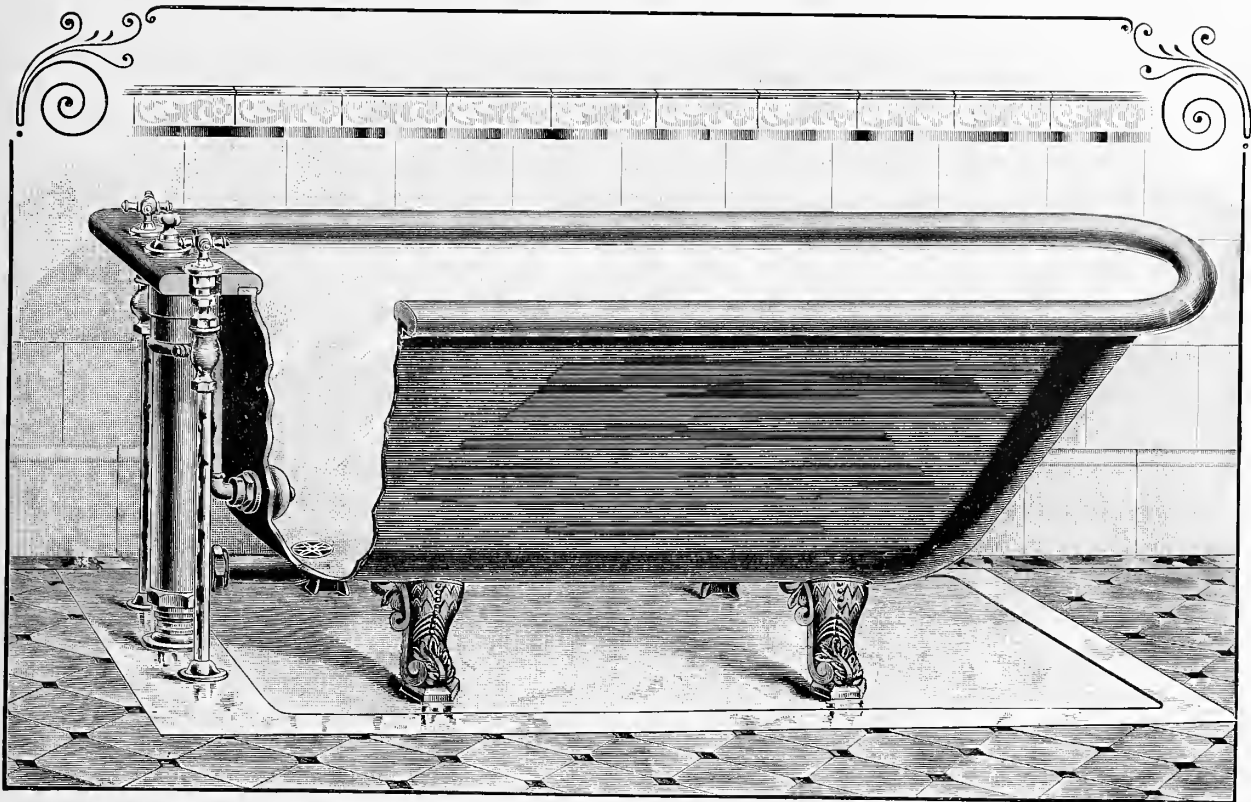


FIG. 1098.

Includes White Enameled Bath, Oak or Cherry Rim, Ideal Waste and Overflow, Bell Supply Fittings and Supply Pipes.
All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim, - - - - -	57	63	68	74	80
Width over Rim, - - - - -	28	28	28	28	28
Depth inside, - - - - -	19	19	19	19	19
Height on Legs, - - - - -	27	27	27	27	27
No. 1. With Plain Exterior, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings and Supply Pipes, complete as shown, - - - - -	\$69.50	\$73.00	\$77.50	\$ 82.00	\$ 86.50
No. 2. With Decorated Exterior in Ivory-white, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings and Supply Pipes, complete, - - - - -	85.50	89.00	93.50	98.00	102.50
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings and Supply Pipes, complete, - - - - -	89.50	93.00	97.50	102.00	106.50

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs add \$3.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab, - - - - -	57 x 31	63 x 31	68 x 31	74 x 31	80 x 31
Price, with Nickel-plated Safe Waste Grate, - - - - -	\$20.00	\$21.50	\$23.50	\$26.00	\$28.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

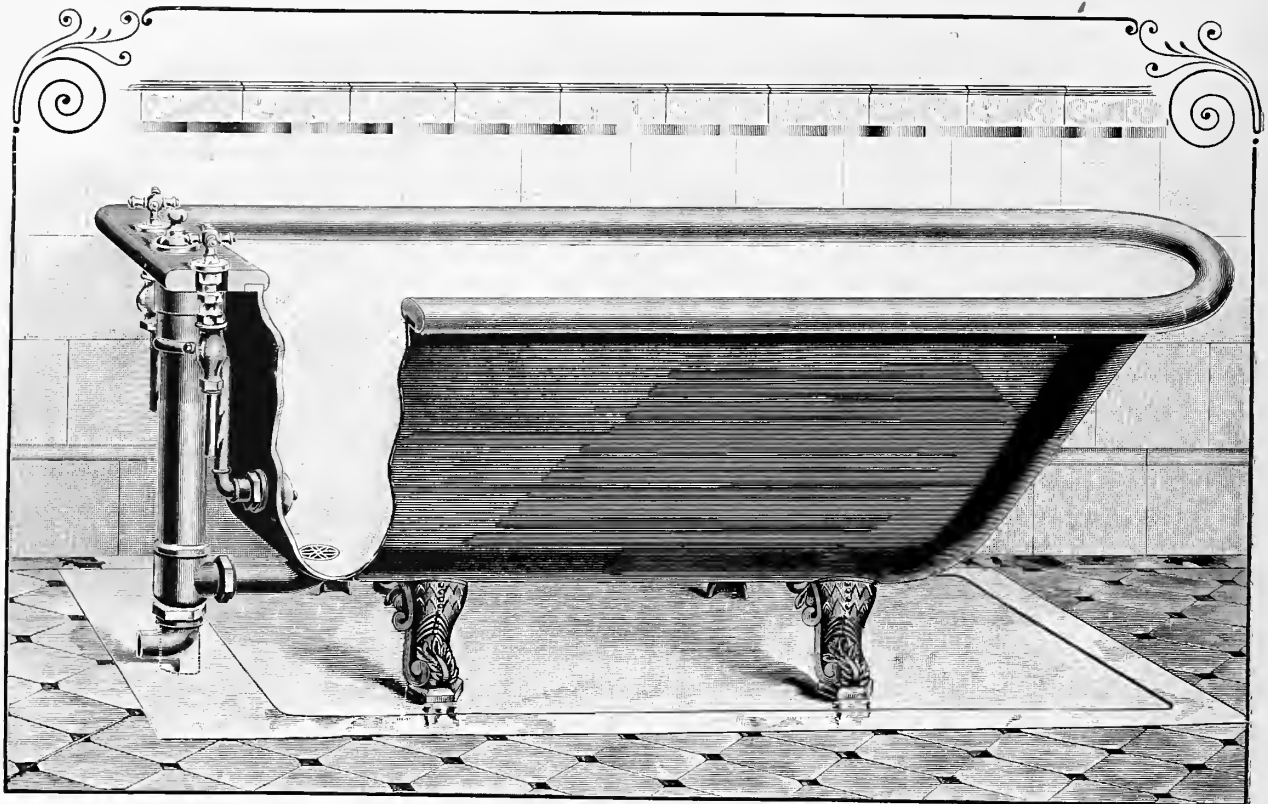


FIG. 1099.

Includes White Enameled Bath, Oak or Cherry Rim, Ideal Waste and Overflow, and Bell Supply Fittings. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,						4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	-	-	-	-	-	57	63	68	74	80
Width over Rim,	-	-	-	-	-	28	28	28	28	28
Depth inside,	-	-	-	-	-	19	19	19	19	19
Height on Legs,	-	-	-	-	-	27	27	27	27	27
No. 1.	With Plain Exterior, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings, complete as shown,					\$65.50	\$69.00	\$73.50	\$78.00	\$ 82.50
No. 2.	With Decorated Exterior in Ivory-white, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings, complete,					81.50	85.00	89.50	94.00	98.50
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, finished Nickel-plated Waste and Overflow, Bell Supply Fittings, complete,					85.50	89.00	93.50	98.00	102.50

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs add \$3.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,						4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	-	-	-	-	-	57 x 31	63 x 31	68 x 31	74 x 31	80 x 31
Price, with Nickel-plated Safe Waste Grate,	-	-	-	-	-	\$20.00	\$21.50	\$23.50	\$26.00	\$28.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

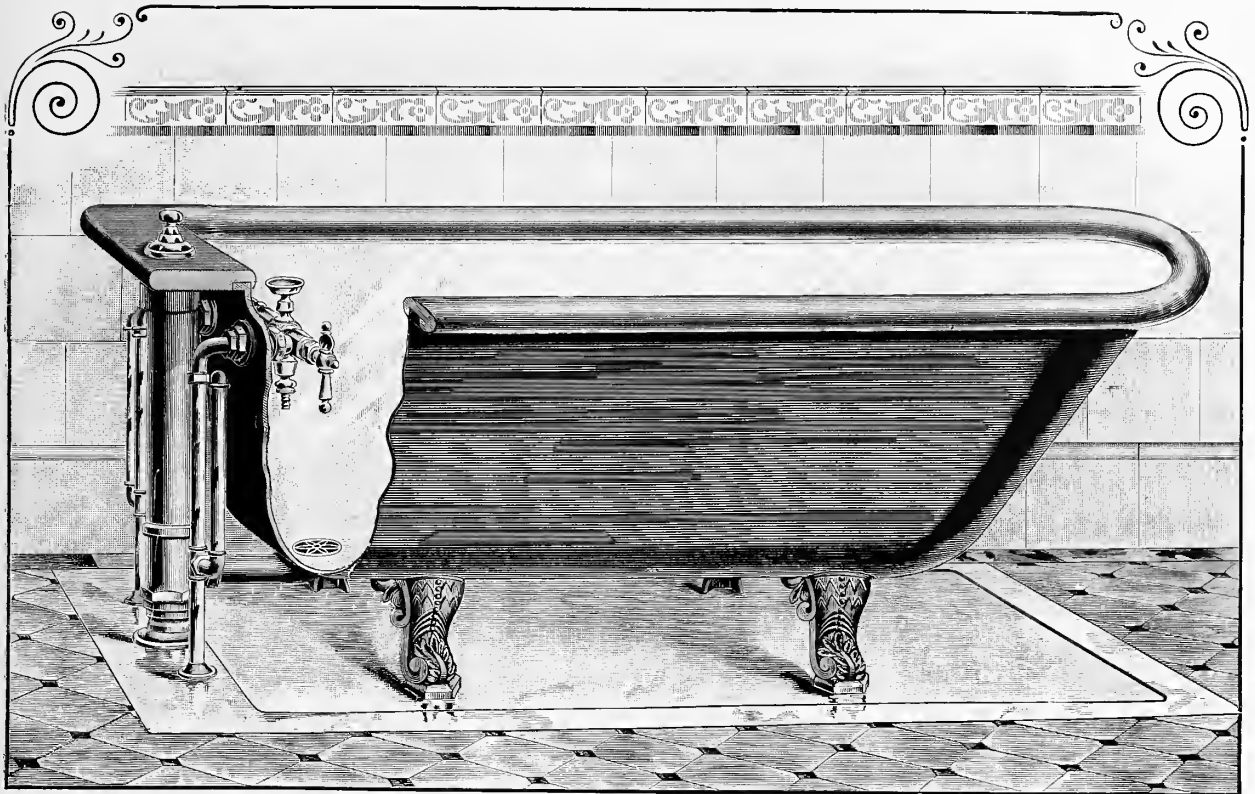


FIG. 1100.

Includes White Enameled Bath, Oak or Cherry Rim, Ideal Waste and Overflow, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler, and Supply Pipes with Air Chambers. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.					
Size of Tub,	-	-	-	-	-
Length over Rim,	-	-	-	-	-
Width over Rim,	-	-	-	-	-
Depth inside,	-	-	-	-	-
Height on Legs,	-	-	-	-	-
No. 1.	With Plain Exterior, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler, and Supply Pipes with Air Chambers, complete as shown,	\$62.50	\$66.00	\$70.50	\$75.00
No. 2.	With Decorated Exterior in Ivory-white, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler, and Supply Pipes with Air Chambers, complete,	78.50	82.00	86.50	91.00
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler, and Supply Pipes with Air Chambers, complete,	82.50	86.00	90.50	95.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs add \$3.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	-	-	-	-	-
Size of Slab,	-	-	-	-	-
Price, with Nickel-plated Safe Waste Grate,	-	-	-	-	-
	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
	57 x 31	63 x 31	68 x 31	74 x 31	80 x 31
	\$20.00	\$21.50	\$23.50	\$26.00	\$28.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

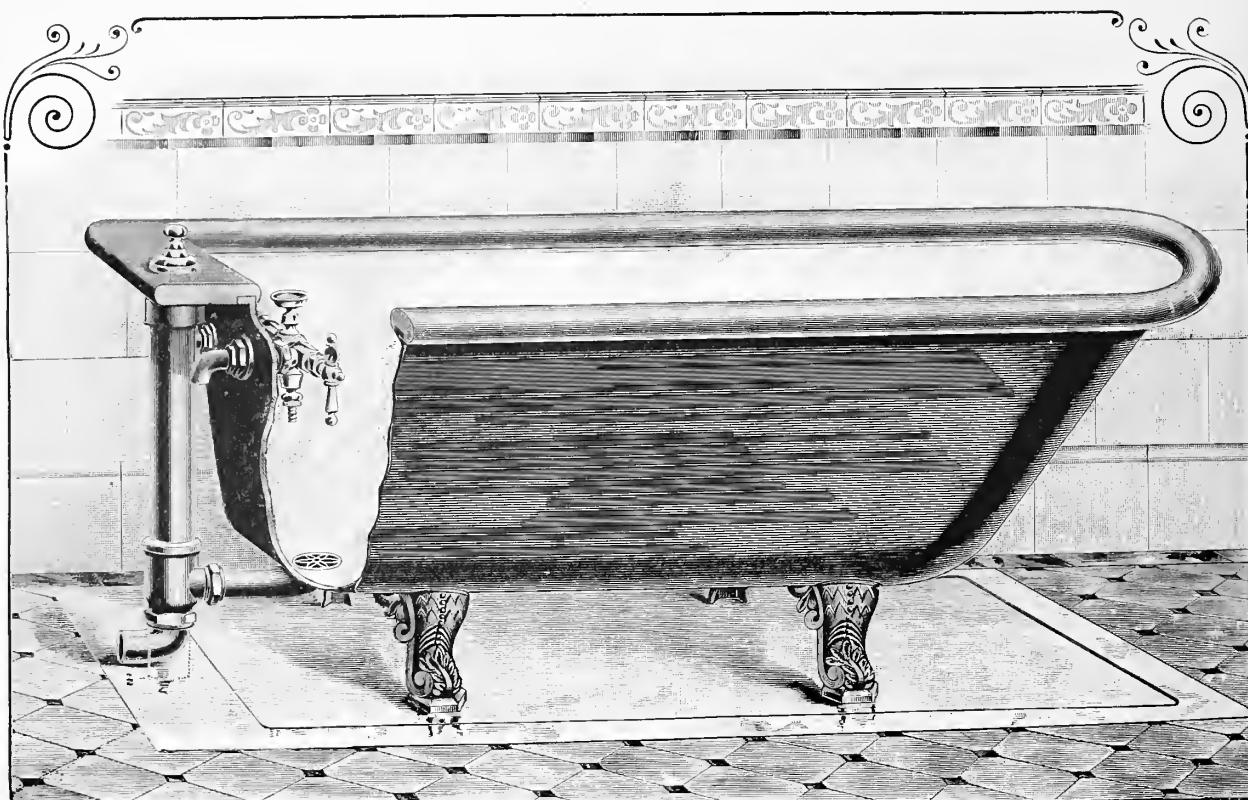


FIG. 1101.

Includes White Enameled Bath with Oak or Cherry Rim, Ideal Waste and Overflow, No. 4½ Fuller Double Bath Cock and Shampoo Sprinkler. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	57	63	68	74	80
Length, including Fittings,	57	63	68	74	80
Width over Rim,	28	28	28	28	28
Depth inside,	19	19	19	19	19
Height on Legs,	27	27	27	27	27
No. 1. With Plain Exterior, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock and Shampoo Sprinkler, complete as shown,					
	\$56.50	\$60.00	\$64.50	\$69.00	\$73.50
No. 2. With Decorated Exterior in Ivory-white, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock and Shampoo Sprinkler, complete,					
	72.50	76.00	80.50	85.00	89.50
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock and Shampoo Sprinkler, complete,					
	76.50	80.00	84.50	89.00	93.50

With Electro-bronzed or Nickel-plated Iron Legs, add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs add \$3.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub,	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab,	57 x 31	63 x 31	68 x 31	74 x 31	80 x 31
Price, with Nickel-plated Safe Waste Grate,	\$20.00	\$21.50	\$23.50	\$26.00	\$28.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

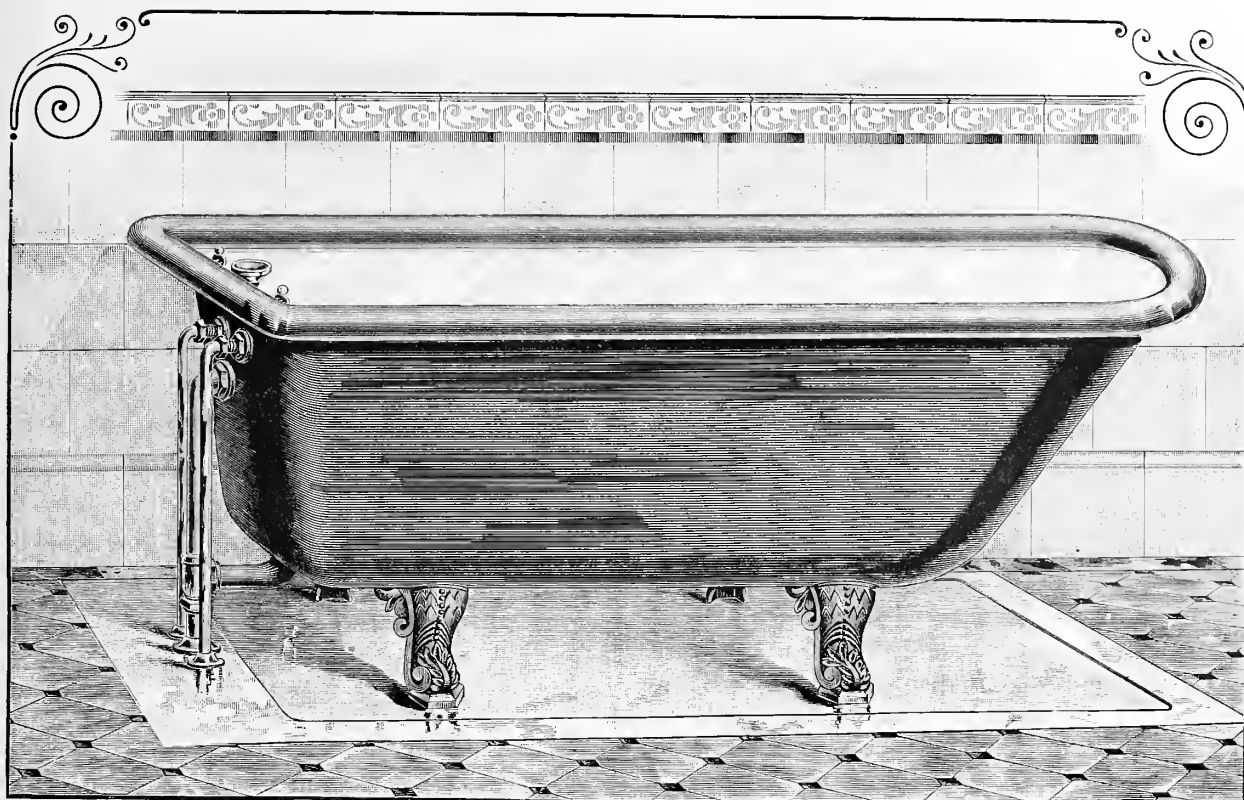


FIG. 1102.

Includes White Enameled Bath, Oak or Cherry Rim, Combined Waste and Overflow, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler and Supply Pipes. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub, - - - - -	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim, - - - - -	Inches 53	59	64	70	76
Length, including Fixtures, - - - - -	Inches 54	60	65	71	77
Width over Rim, - - - - -	Inches 28	28	28	28	28
Depth inside, - - - - -	Inches 19	19	19	19	19
Height on Legs, - - - - -	Inches 27	27	27	27	27
No. 1. With Plain Exterior, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler and Supply Pipes, complete as shown, - - - - -	\$54.00	\$57.50	\$62.00	\$66.50	\$71.00
No. 2. With Decorated Exterior in Ivory-white, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler and Supply Pipes, complete, - - - - -	70.00	73.50	78.00	82.50	87.00
No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, finished Nickel-plated Waste, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler and Supply Pipes, complete, - - - - -	74.00	77.50	82.00	86.50	91.00

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs add \$3.50 each.

DIMENSIONS AND PRICES OF 1¼-INCH COUNTERSUNK ITALIAN MARBLE FLOOR SLABS FOR ABOVE.

Size of Tub, - - - - -	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Size of Slab, - - - - -	Inches 54 x 31	60 x 31	65 x 31	71 x 31	77 x 31
Price, with Nickel-plated Safe Waste Grate, - - - - -	\$19.00	\$21.00	\$22.75	\$24.75	\$27.00

NOTE.—The width of above Floor Slabs allows one inch space between Wall and Tub, and one inch for Wainscoting.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. ROLLED WOOD RIM.

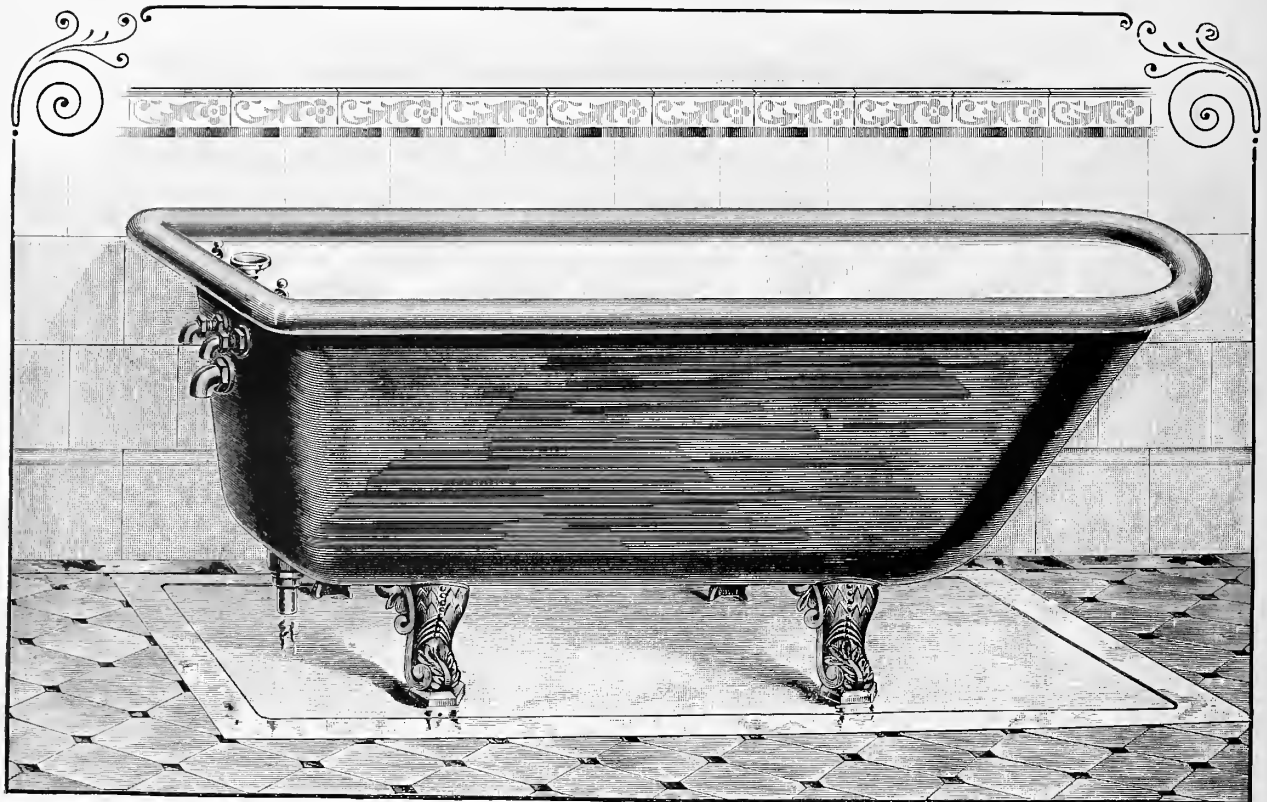


FIG. 1103.

Includes White Enameled Bath, Oak or Cherry Rim, No. 4½ Nickel-plated Fuller Double Bath Cock, Shampoo Sprinkler, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper.

DIMENSIONS AND PRICES.

Size of Tub,		4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	Inches	53	59	64	70	76
Width over Rim,	Inches	28	28	28	28	28
Depth inside,	Inches	19	19	19	19	19
Height on Legs,	Inches	27	27	27	27	27
No. 1.	With Plain Exterior, Oak or Cherry Rim, Nickel-plated No. 4½ Fuller Double Bath Cock, complete as shown,	\$43.50	\$47.00	\$51.50	\$56.00	\$60.00
No. 2.	With Decorated Exterior in Ivory-white, Oak or Cherry Rim, Nickel-plated No. 4½ Fuller Double Bath Cock, complete,	59.50	63.00	67.50	72.00	76.50
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, Oak or Cherry Rim, Nickel-plated No. 4½ Fuller Double Bath Cock, complete,	63.50	67.00	71.50	76.00	80.50

With Electro-bronzed or Nickel-plated Iron Legs add \$1.00 each, Polished Brass Legs add \$3.00 each, Nickel-plated Brass Legs, add \$3.50 each.

For prices and sizes of Marble Floor Slabs, see page 247.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED.

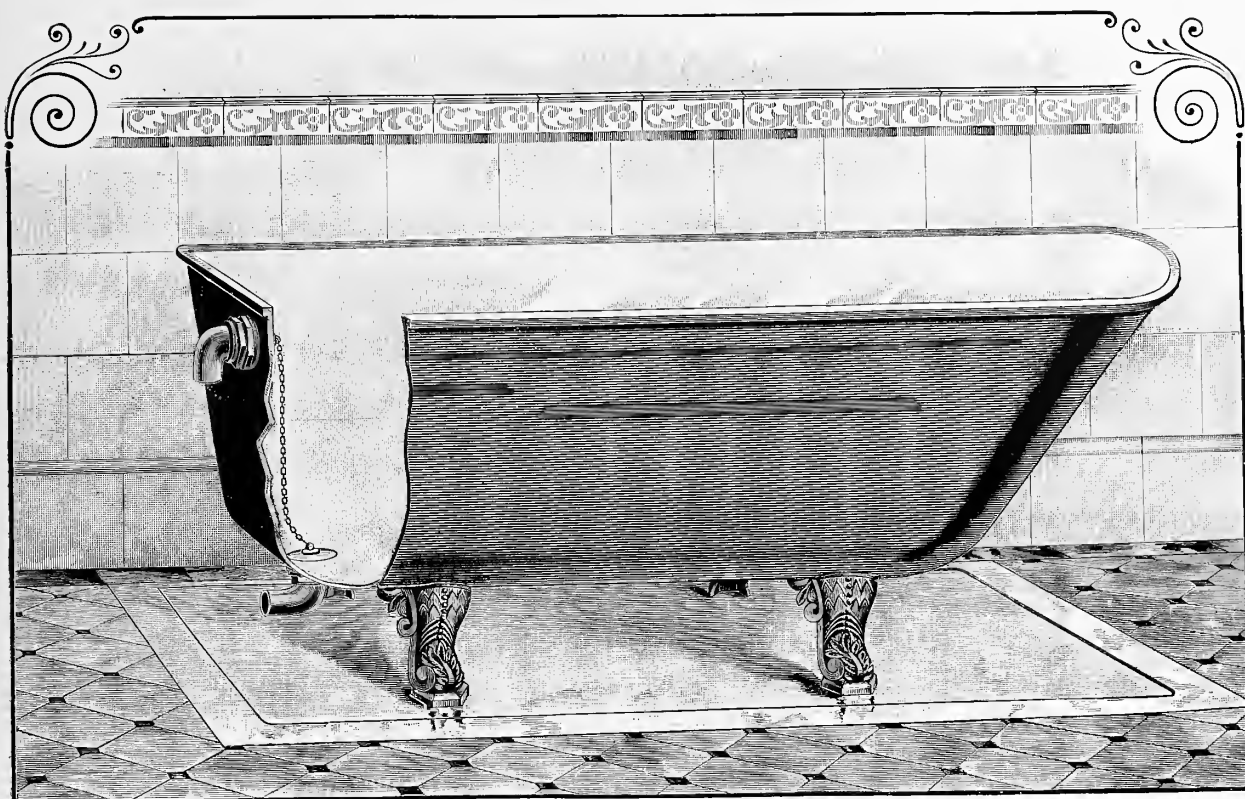


FIG. 1104.

Includes White Enameled Bath, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length inside,	-	-	-	-	-	-	-	-	Inches	48	54	59	65	71
Width inside,	-	-	-	-	-	-	-	-	Inches	23	23	23	23	23
Depth inside,	-	-	-	-	-	-	-	-	Inches	19	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	-	Inches	25	25	25	25	25
Painted,	-	-	-	-	-	-	-	-		\$15.00	\$17.00	\$19.00	\$21.00	\$23.00
White Enameled,	-	-	-	-	-	-	-	-		31.00	34.00	38.00	42.00	46.00

For prices and sizes of Marble Floor Slabs, see page 247.

CLOW'S PORCELAIN-LINED IRON BATHS.

WHITE ENAMELED. STANDARD PATTERN.

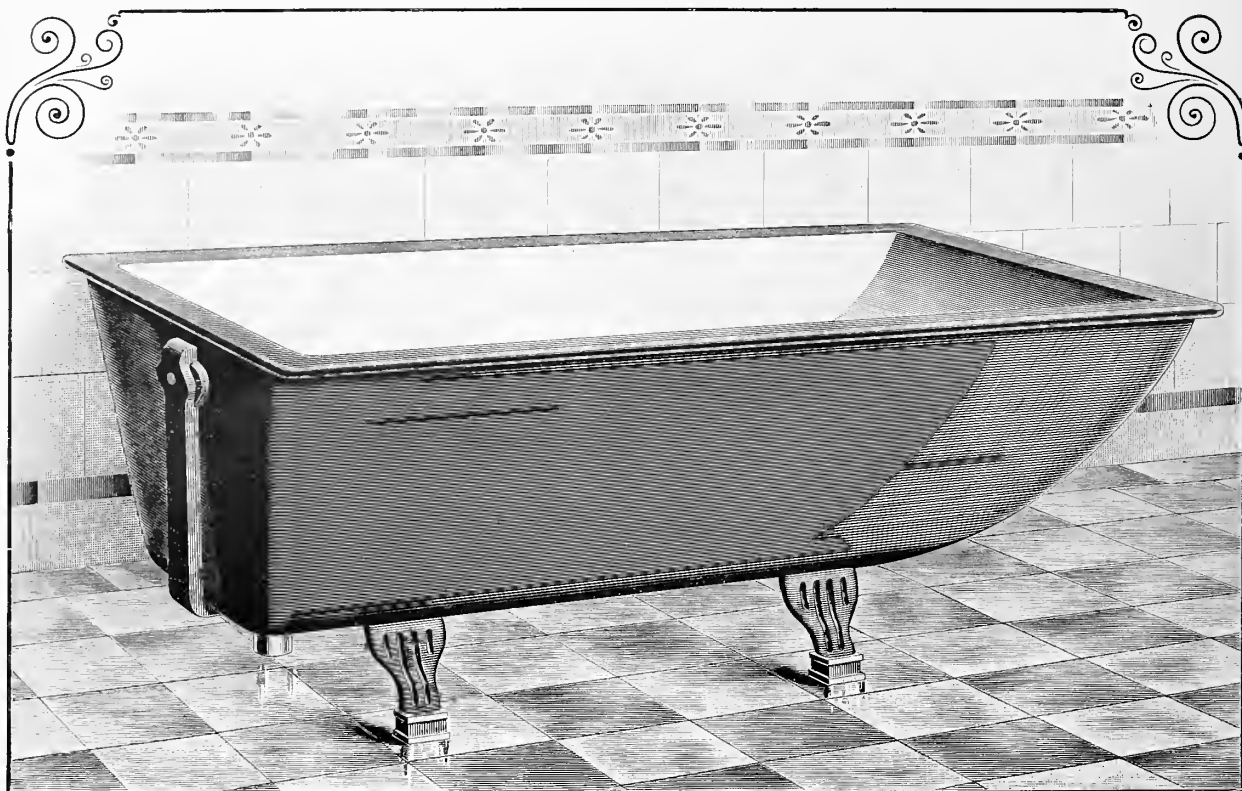


FIG. 1105.

Includes White Enameled Bath. Patent Overflow, Nickel-plated Overflow Strainer, Waste Plug, and Rubber Stopper.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	-	-	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over all,	-	-	-	-	-	-	-	-	Inches	54	60	66	72
Length inside,	-	-	-	-	-	-	-	-	Inches	50	56	62	68
Width over all,	-	-	-	-	-	-	-	-	Inches	27	27	27	27
Width inside,	-	-	-	-	-	-	-	-	Inches	23	23	23	23
Depth inside,	-	-	-	-	-	-	-	-	Inches	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	-	Inches	25½	25½	25½	25½
Painted,	-	-	-	-	-	-	-	-		\$16.00	\$17.00	\$18.00	\$20.00
White Enameled,	-	-	-	-	-	-	-	-		30.00	31.00	33.00	39.00

If tapped at bottom for iron pipe, hot and cold water, and waste connections, add \$1.50.

This Bath Tub is especially adapted for use in Prisons and Hospitals; being narrow at bottom it takes less water than regular Baths.

Always sent with Iron Rim drilled unless otherwise ordered.

CLOW'S PORCELAIN-LINED IRON BATHS.

GRAY ENAMELED. ROLLED WOOD RIM.

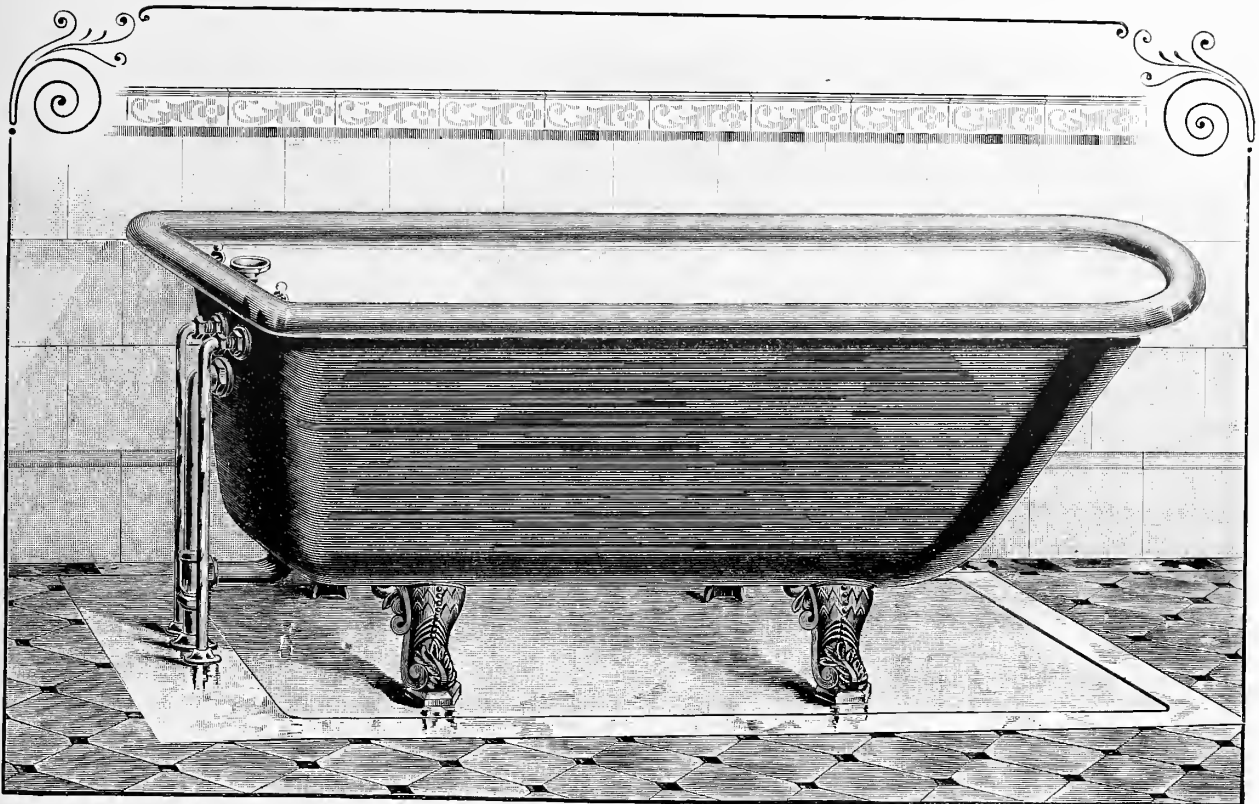


FIG. 1106.

Includes Gray Enameled Bath, Oak or Cherry Rim, Combined Waste and Overflow, No. 4½ Fuller Double Bath Cock, Shampoo Sprinkler, and Supply Pipes. All finished Nickel-plated Fixtures.

DIMENSIONS AND PRICES.

Size of Tub,			4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length over Rim,	Inches	53	59	64	70	76	
Length, including Fixtures,	Inches	54	60	65	71	77	
Width over Rim,	Inches	28	28	28	28	28	
Depth inside,	Inches	19	19	19	19	19	
Height on Legs,	Inches	27	27	27	27	27	
With Plain Exterior, complete as shown,		\$47.50	\$51.00	\$54.50	\$58.00	\$61.50	

For prices and sizes of Marble Floor Slabs, see page 247.

CLOW'S PORCELAIN-LINED IRON BATHS.

GRAY ENAMELED.

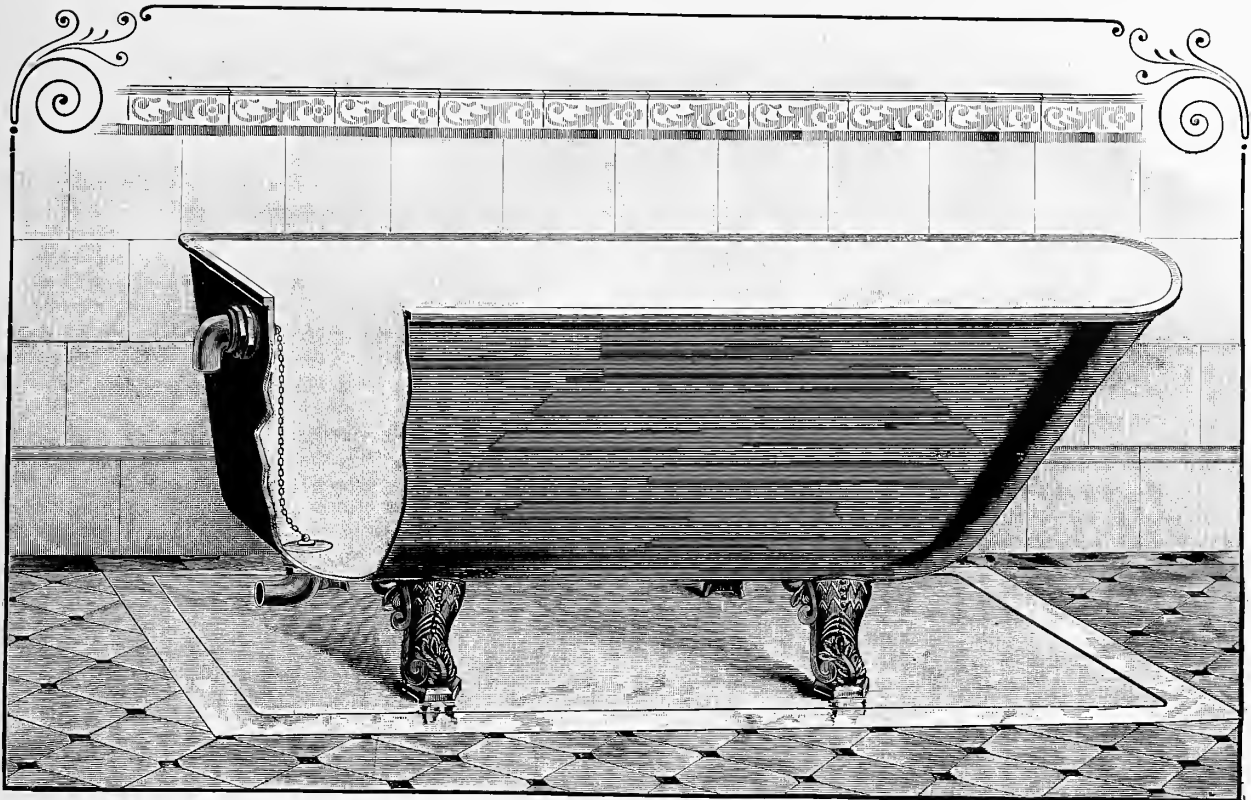


FIG. 1108.

Includes Gray Enameled Bath, Nickel-plated Overflow and Strainer, Waste Plug, and Rubber Stopper.

DIMENSIONS AND PRICES.

Size of Tub,	-	-	-	-	-	-	-	-	-	4 ft.	4½ ft.	5 ft.	5½ ft.	6 ft.
Length inside,	-	-	-	-	-	-	-	-	Inches	48	54	59	65	71
Width inside,	-	-	-	-	-	-	-	-	Inches	23	23	23	23	23
Depth inside,	-	-	-	-	-	-	-	-	Inches	19	19	19	19	19
Height on Legs,	-	-	-	-	-	-	-	-	Inches	25	25	25	25	25
With Plain Exterior, complete as shown,	-	-	-	-	-	-	-	-		\$24.00	\$27.00	\$30.00	\$33.00	\$36.00

For prices and sizes of Marble Floor Slabs, see page 247.

CLOW'S PORCELAIN SITZ BATHS.

ROLLED EDGE. GLAZED INSIDE AND OUTSIDE.

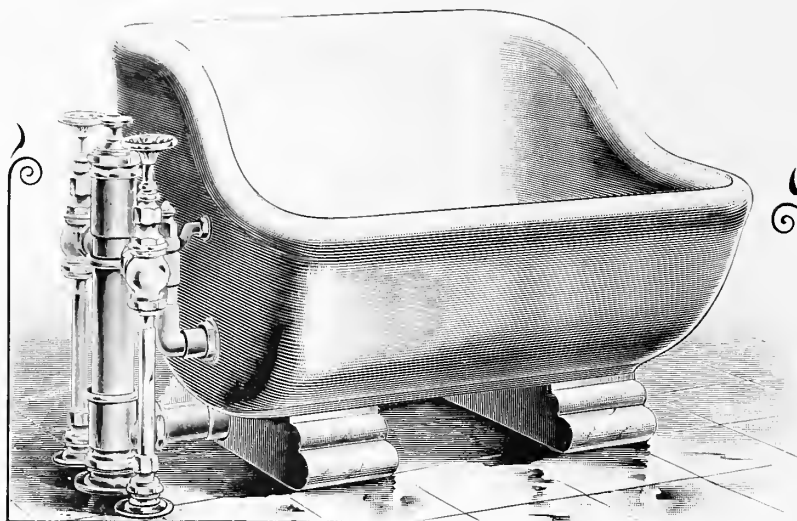


FIG. 1109.

Includes Porcelain Rolled Edge Sitz Bath with Italian Marble Legs, finished Nickel-plated Ideal Waste, Bell Supply Fittings, and Supply Pipes to Floor. Length, including Fixtures, 31½ inches; height on front legs, 17 inches; height at back, 23 inches; width, 25 inches.

PRICES.

No. 1.	With Decorated Exterior in Ivory-white, and Nickel-plated Fixtures, complete,	-	-	-	\$120.00
No. 2.	With Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated Fixtures, complete,	-	-	-	122.00
No. 3.	With Glazed Exterior, Nickel-plated Fixtures, complete as shown,	-	-	-	126.00

CLOW'S PORCELAIN-LINED IRON SITZ BATHS.

WHITE ENAMELED. ROLLED RIM.

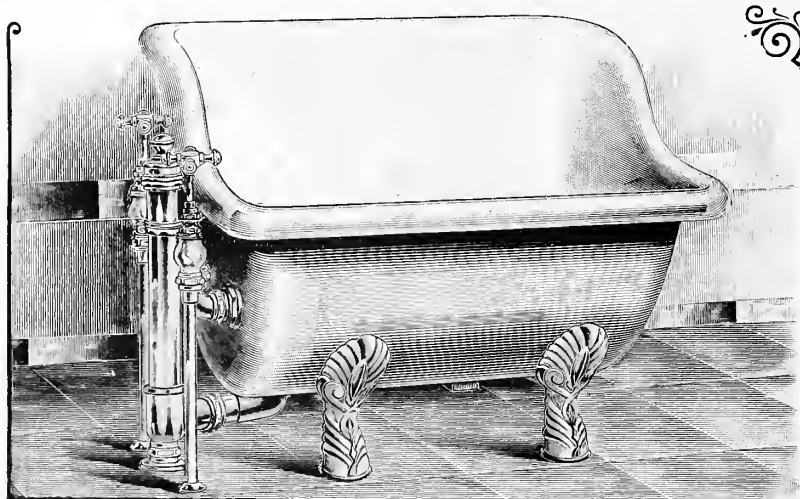


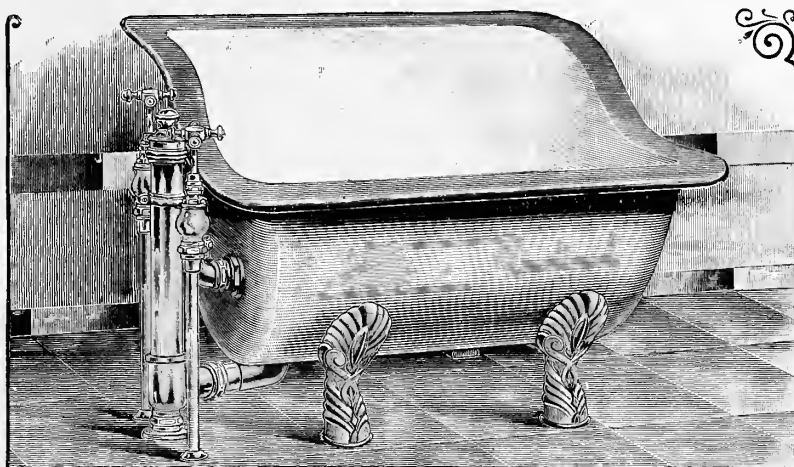
FIG. 1110.

Includes White Enameled Rolled Rim Sitz Bath, finished Nickel-plated Ideal Waste and Overflow, Bell Supply Fittings, and Supply Pipes to Floor. Extreme length, 32½ inches; height on front legs, 15 inches; height at back, 20 inches; width, 27½ inches.

PRICES.

No. 1.	With Plain Exterior and Nickel-plated Fixtures, complete as shown,	-	-	-	\$69.00
No. 2.	With Decorated Exterior in Ivory-white, and Nickel-plated Fixtures, complete,	-	-	-	79.00
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated Fixtures, complete,	-	-	-	81.00

With Electro-bronzed or Nickel-plated Iron Legs add 60 cents each, Polished Brass Legs add \$2.00 each, Nickel-plated Brass Legs add \$2.50 each.

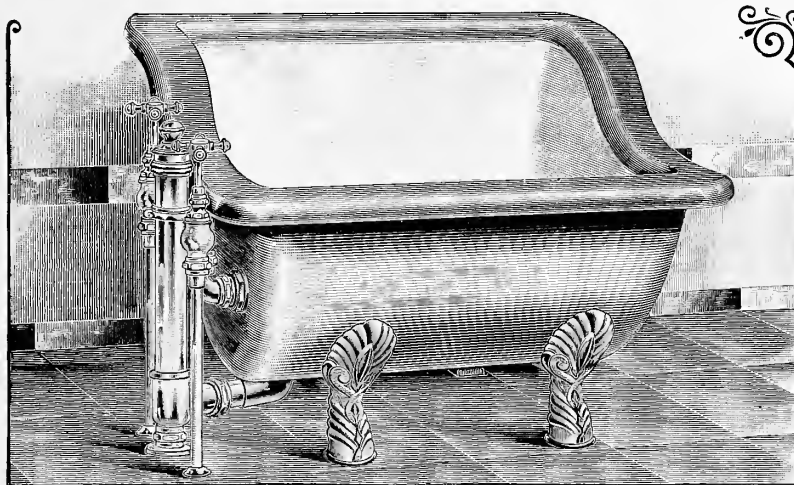
CLOW'S PORCELAIN-LINED IRON SITZ BATHS.**WHITE ENAMELED. FLAT RIM.****FIG. 1112.**

Includes White Enameled Flat Rim Sitz Bath, finished Nickel-plated Ideal Waste and Overflow, Bell Supply Fittings, and Supply Pipes to Floor. Extreme length, 32½ inches; height on front legs, 15 inches; height at back, 20 inches; width, 27½ inches.

PRICES.

No. 1.	With Plain Exterior and finished Nickel-plated Fixtures, complete as shown,	- - - -	\$67.00
No. 2.	With Decorated Exterior in Ivory-white and finished Nickel-plated Fixtures, complete,	- - - -	77.00
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, finished Nickel-plated Fixtures, complete,	- - - -	79.00

With Electro-bronzed or Nickel-plated Iron Legs add 60 cents each, Polished Brass Legs add \$2.00 each, Nickel-plated Brass Legs add \$2.50 each.

WHITE ENAMELED. ROLLED WOOD RIM.**FIG. 1113.**

Includes White Enameled Sitz Bath, Oak or Cherry Rim, finished Nickel-plated Ideal Waste and Overflow, Bell Supply Fittings, and Supply Pipes to Floor. Length, including Fixtures, 30½ inches; height on front legs, 16 inches; height at back, 21 inches; width, 26½ inches.

PRICES.

No. 1.	With Plain Exterior, Wood Rim and Nickel-plated Fixtures, complete as shown,	- - - -	\$72.00
No. 2.	With Decorated Exterior in Ivory-white, Wood Rim and Nickel-plated Fixtures, complete,	- - - -	82.00
No. 3.	With Decorated Exterior in Ivory-white and Gold Bands, Wood Rim and Nickel-plated Fixtures, complete,	- - - -	84.00

With Electro-bronzed or Nickel-plated Iron Legs add 60 cents each, Polished Brass Legs add \$2.00 each, Nickel-plated Brass Legs add \$2.50 each.

CLOW'S PORCELAIN-LINED IRON FOOT BATHS.

WHITE ENAMELED.

PATENTED FLAT EXTENSION.

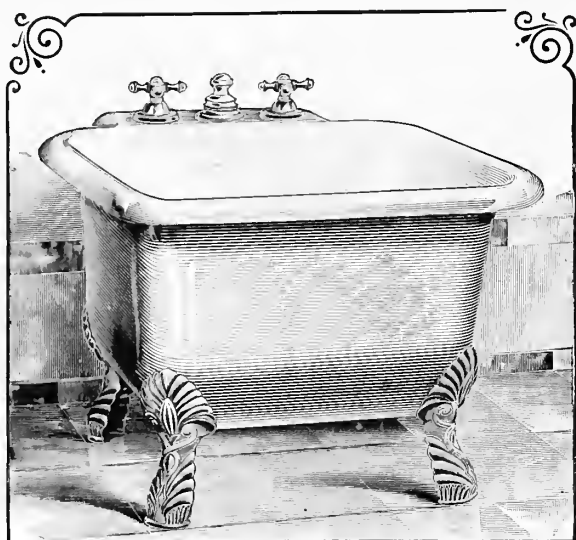


FIG. 1114. ROLLED RIM.

Includes White Enameled Foot Bath with 3-inch wide Rolled Rim and Extension, finished Nickel-plated Ideal Waste, Bell Supply Fittings, and Supply Pipes to Floor.



FIG. 1115. FLAT RIM.

Includes White Enameled Bath with 3½-inch wide Flat Enameled Rim and Extension, finished Nickel-plated Ideal Waste and Overflow, Bell Supply Fittings, and Supply Pipes to Floor.

DIMENSIONS AND PRICES. FIG. 1114.

Length over all,	- - - - -	Inches	25
Width over all,	- - - - -	Inches	26
Depth inside,	- - - - -	Inches	13
Length inside,	- - - - -	Inches	19½
Width inside,	- - - - -	Inches	17½
Height on Legs,	- - - - -	Inches	18

- No. 1. With Plain Exterior and Nickel-plated Fixtures, complete as shown, - - - - \$40.00
 No. 2. With Decorated Exterior in Ivory-white, and Nickel-plated Fixtures, complete, - - - - 48.00
 No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated Fixtures, complete, - - - - 50.00

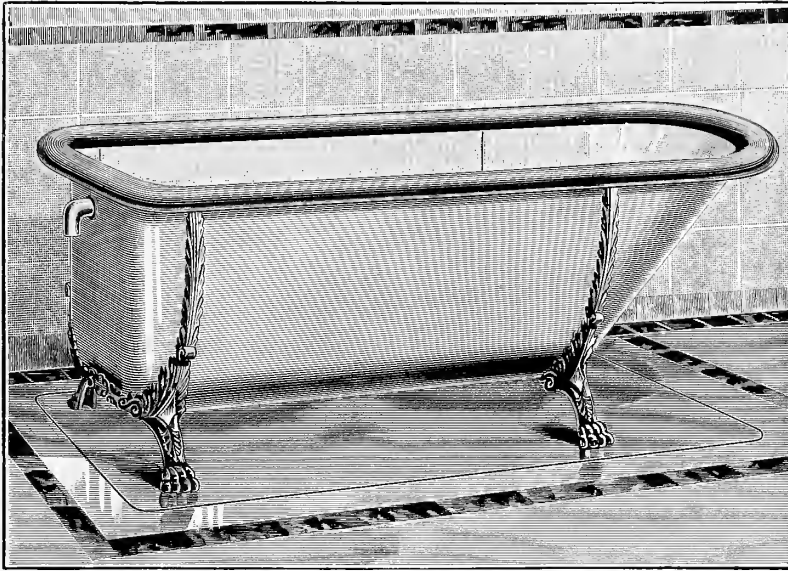
With Electro-bronzed or Nickel-plated Iron Legs add 60 cents each, Polished Brass Legs add \$2.00 each, Nickel-plated Brass Legs add \$2.50 each.

DIMENSIONS AND PRICES. FIG. 1115.

Length over all,	- - - - -	Inches	25
Width over all,	- - - - -	Inches	22½
Depth inside,	- - - - -	Inches	13
Length inside,	- - - - -	Inches	20
Width inside,	- - - - -	Inches	18
Height on Legs,	- - - - -	Inches	18

- No. 1. With Plain Exterior and Nickel-plated Fixtures, complete as shown, - - - - \$39.00
 No. 2. With Decorated Exterior in Ivory-white, and Nickel-plated Fixtures, complete, - - - - 47.00
 No. 3. With Decorated Exterior in Ivory-white and Gold Bands, Nickel-plated Fixtures, complete, - - - - 49.00

With Electro-bronzed or Nickel-plated Iron Legs add 60 cents each, Polished Brass Legs add \$2.00 each, Nickel-plated Brass Legs add \$2.50 each.

STEEL-CLAD BATHS.**FIG. 1116. FRENCH PATTERN. No. 1.**

These Baths are finished on the Exterior with Light Gray Enamel Paint, Gold-bronzed Legs, and fitted with Natural Oak or Cherry Rims, and Nickel-plated Overflow.

DIMENSIONS AND PRICES No. 1.

Length over Rim,	-	-	-	-	-	-	-	-	-	-	5 ft. 3 in.	5 ft. 9 in.	6 ft.
Width over Rim,	-	-	-	-	-	-	-	-	-	Inches	26	26	26
Depth,	-	-	-	-	-	-	-	-	-	Inches	20	20	20
Height from Floor to Top of Rim,	-	-	-	-	-	-	-	-	-	Inches	26	26	26
12-ounce Copper,	-	-	-	-	-	-	-	-	-	Each	\$31.00	\$31.50	\$33.00
14-ounce Copper,	-	-	-	-	-	-	-	-	-	Each	33.00	33.50	35.00
16-ounce Copper,	-	-	-	-	-	-	-	-	-	Each	35.00	35.50	37.00

STEEL BATH. No. 2.

The No. 2 Bath is constructed on precisely the same principles as the Regular No. 1. They are made of 12-ounce Copper and smaller dimensions.

DIMENSIONS AND PRICES. No. 2.

Length over Rim,	-	-	-	-	-	-	-	-	-	-	4 ft. 6 in.	5 ft.	5 ft. 6 in.
Width over Rim,	-	-	-	-	-	-	-	-	-	Inches	17½	17½	17½
Height from Floor to Top of Rim,	-	-	-	-	-	-	-	-	-	Inches	23½	23½	23½
12-ounce Copper,	-	-	-	-	-	-	-	-	-	Each	\$23.00	\$24.00	\$25.00

COPPER BATH TUBS.

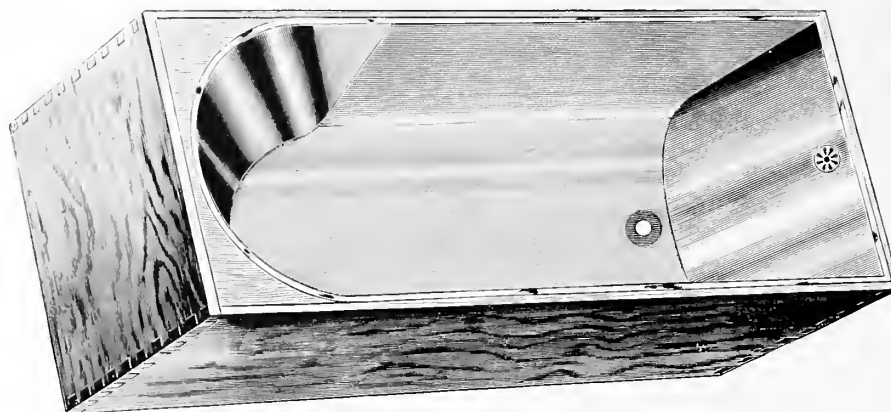


FIG. 1117. REGULAR PATTERN.

Outside width of Tubs at head and foot, 24 inches ; outside depth of Tubs, 19 inches ; outside length of Tubs, 4½, 5, 5½, and 6 feet.

Weight of Copper,	10 oz.	12 oz.	14 oz.	16 oz.	18 oz.
Price, each, any length as above,	\$15.00	\$16.00	\$18.00	\$20.00	\$22.00

Zinc Tubs, 5, 5½, or 6 feet, \$8.00 each.

Smaller size Bath Tubs to order, usually no extra charge.

Larger size Bath Tubs to order, of Copper, 12 ounce and heavier.

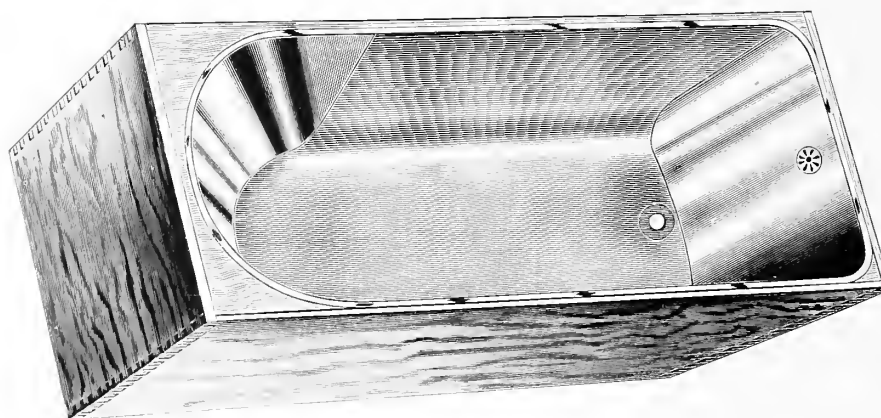


FIG. 1118. FRENCH PATTERN.

Outside width of Tubs at head and foot, 26½ inches ; outside depth of Tubs, 22 inches.

Weight of Copper,	10 oz.	12 oz.	14 oz.	16 oz.	18 oz.
4 feet 6 inches long,	\$16.00	\$17.00	\$19.00	\$21.00	\$23.00
5 feet long,	18.00	19.00	21.00	23.00	25.00
5 feet 6 inches long,	20.00	21.00	23.00	25.00	27.00
6 feet long,	22.00	23.00	25.00	27.00	29.00

CLOW'S COMBINATION NEEDLE, SHOWER, LIVER SPRAY AND BIDET BATH.
WITH THERMOMETER AND CURTAIN.

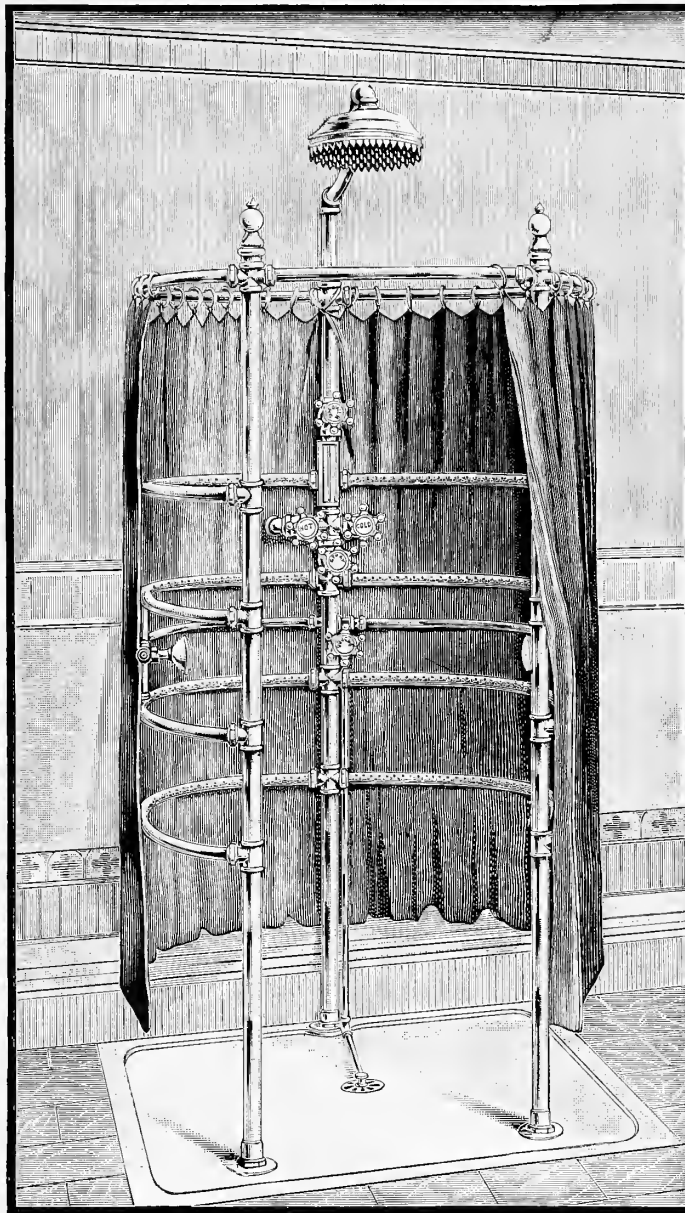


FIG. 1119.

DIMENSIONS AND PRICE.

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CLOW'S COMBINATION NEEDLE AND SHOWER BATH.

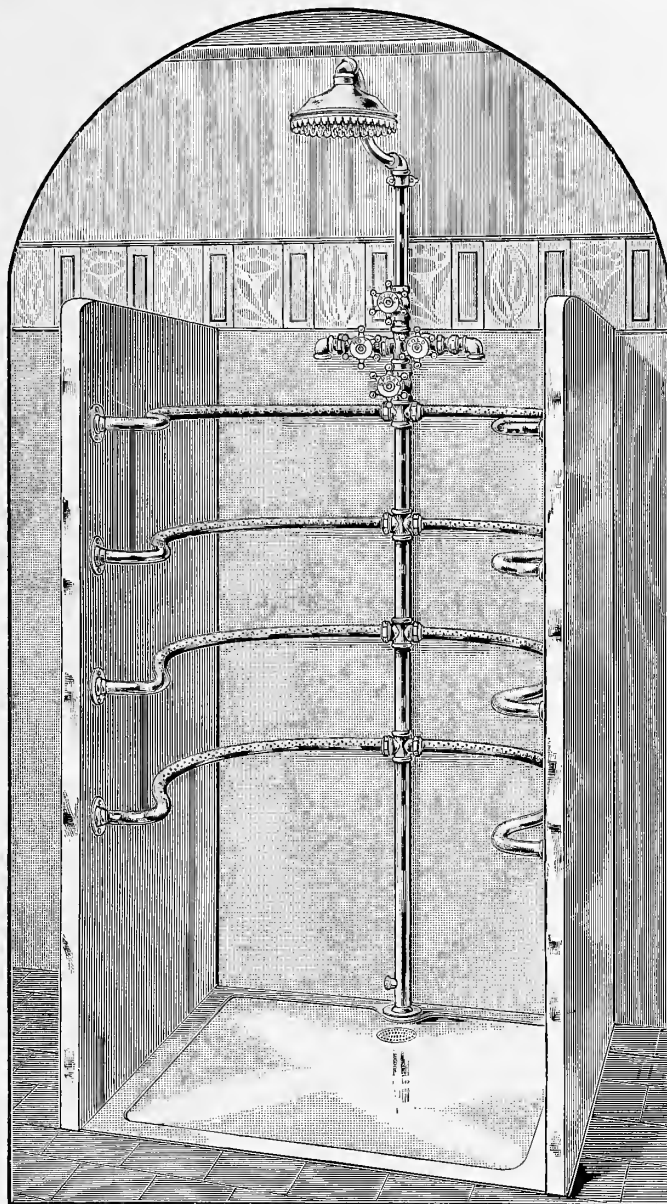


FIG. 1121.

DIMENSIONS AND PRICES.

							DIMENSIONS AND PRICES.
Height to top of Shower,	-	-	-	-	-	-	7½ ft.
Diameter of Stall, inside,	-	-	-	-	-	-	Inches 36
Diameter of Shower,	-	-	-	-	-	-	Inches 8½
Lateral distance from wall to center of Shower,	-	-	-	-	-	-	Inches 19
Combination Needle and Shower Bath for Hot and Cold Water, finished Nickel-plated Brass,	-	-	-	-	-	-	\$ 80.00
If fitted for Cold Water only, deduct	-	-	-	-	-	-	7.00
If without Shower, deduct	-	-	-	-	-	-	13.00
If with Nickel-plated Waste, Strainer, and Coupling, 2 inches, add	-	-	-	-	-	-	3.00
Slate Stall 6 feet 6 inches high, 3 feet wide, 3 feet deep, 1½-inch Base, 1-inch Center and Back, add	-	-	-	-	-	-	75.00
Italian Marble Stall, size as described above, add	-	-	-	-	-	-	140.00
Tennessee Marble Stall, size as described above, add	-	-	-	-	-	-	150.00

CLOW'S IMPROVED SHOWERS.

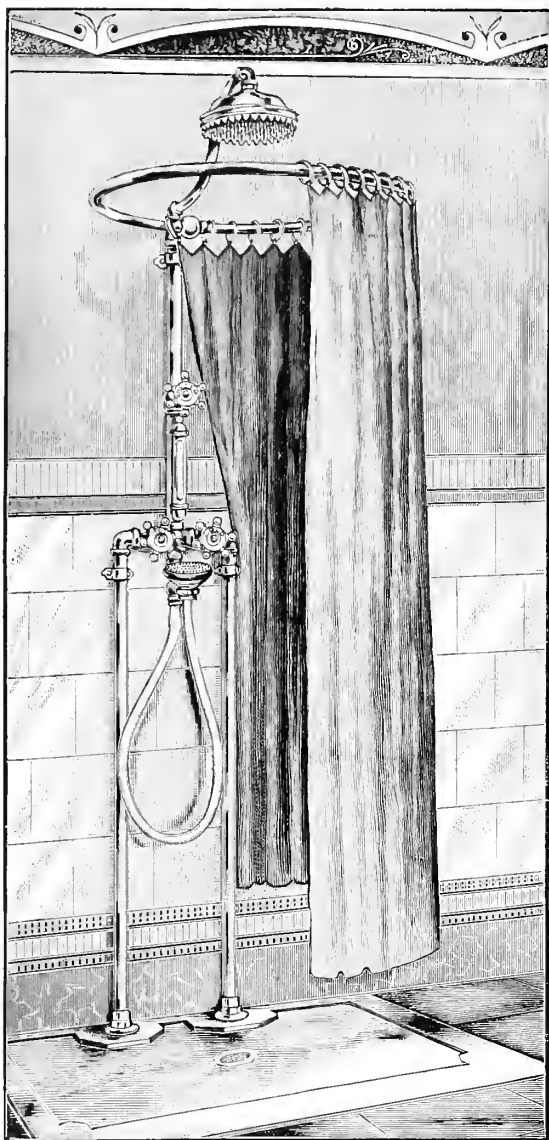


FIG. 1122.

Includes Nickel-plated Shower, with Thermometer, Nickel-plated Brass Shampoo, Curtain Ring, and Supply Pipes to Floor.
Total Height, 7 feet 9 inches. Distance from Wall to Center of Shower, 1 foot 6 inches. Diameter of Shower, 8½ inches.

Price, complete as shown and described, except
Curtain, - - - - - \$50.00
If without Shampoo, deduct - - - - - 6.50
If without Curtain Ring, deduct - - - - - 12.00
If without Thermometer, deduct - - - - - 10.00
If with White Rubber Curtain, add - - - - - 10.00
If with 1½-inch Italian Marble Base, 36 x 36 inches,
countersunk ½ inch deep, with 5-inch N.-P.
Waste Strainer and 2-inch Outlet Coupling, add 16.00

If desired we will furnish Ring Shower at same price as given for Regular Shower.

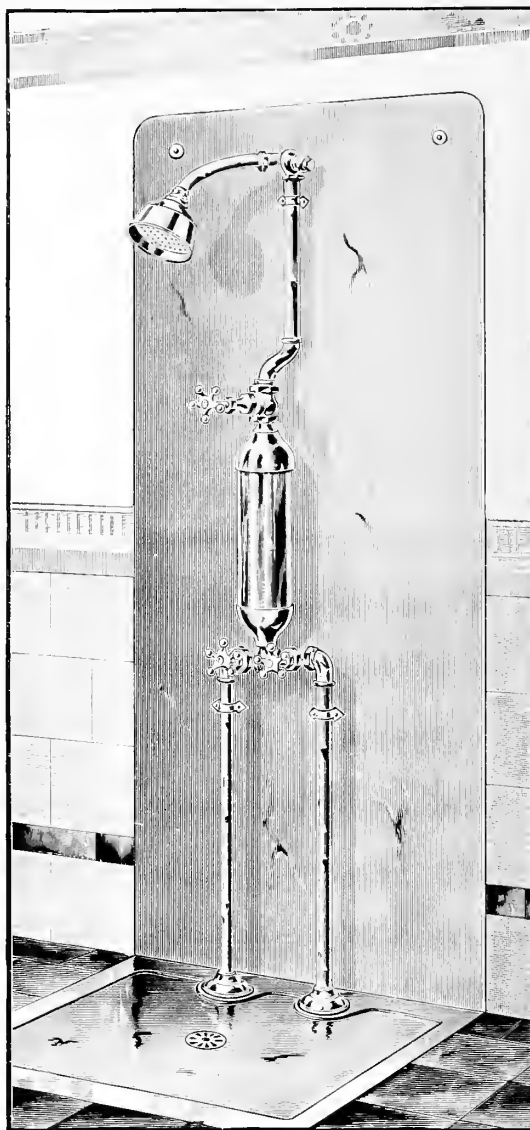


FIG. 1123.

Includes Nickel-plated Adjustable Shower, Mixing Chamber, and Supply Pipes to Floor.

Total Height, 7 feet 9 inches. Distance from Wall to Center of Shower, 1 foot 6 inches. Diameter of Shower, 6 inches.

Price, complete as shown, - - - - - \$35.00
If with Thermometer, add - - - - - 10.00
If with 1½-inch Italian Marble Base, 26 x 26 inches,
countersunk ½ inch deep, with 5-inch Nickel-plated
Waste Strainer and 2-inch Outlet Coupling, add - - - - - 12.50

This Shower is particularly adapted for use in Gymnasiums, Club Houses, and Public Institutions.

CLOW'S NICKEL-PLATED SHAMPOO SPRINKLERS.

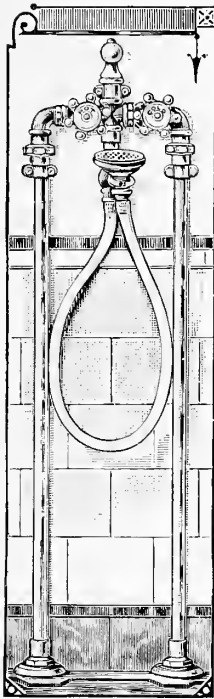


FIG. 1124.

SPRINKLER 3½ INCHES DIAMETER, WITH RUBBER CUSHION.

Polished Brass, \$14.00
 Polished Brass, Nickel-plated, 15.00

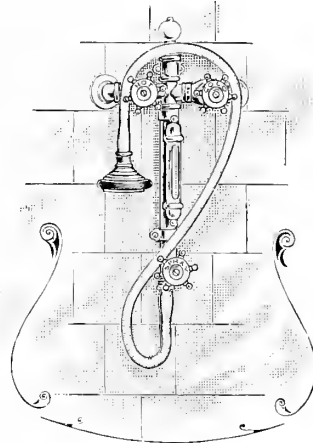


FIG. 1125.

SPRINKLER 3½ INCHES DIAMETER, WITH RUBBER CUSHION.

Polished Brass, Nickel-plated, with Thermometer
 as shown, \$21.00
 Polished Brass, Nickel-plated, without Thermom-
 eter, 15.00



FIG. 1126.

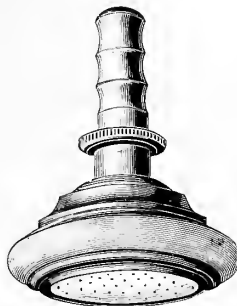


FIG. 1127.



FIG. 1128.

FIGURE		1126	1127	1128
FINISHED	PER DOZEN	8.00	22.00	13.00
NICKEL-PLATED	PER DOZEN	10.00	24.00	15.00

CLOW'S SIPHON JET CLOSETS.

(MADDEN'S PATENT.)

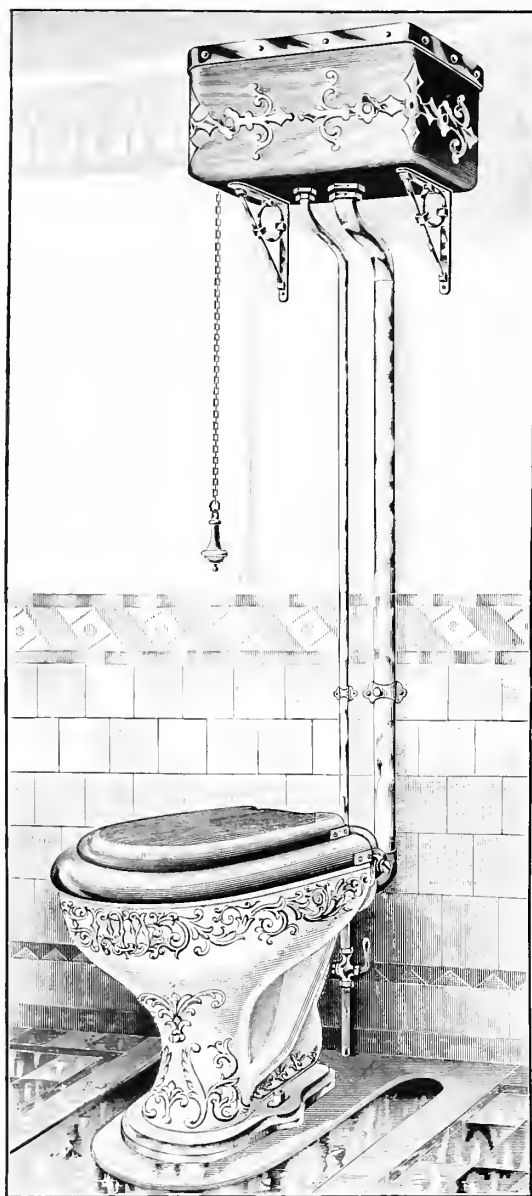


FIG. 1129.

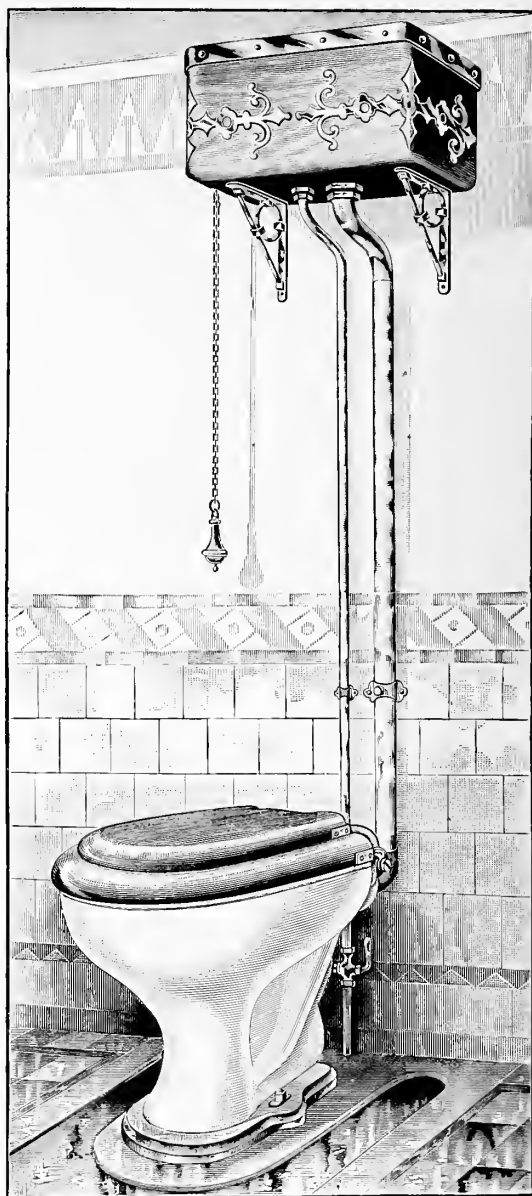


FIG. 1130.

Includes Square-back Siphon Jet Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Tank Ornaments, Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket

Fig. 1129. Embossed Closet, complete as described,	\$75.00
Fig. 1130. Plain Closet, complete as described,	73.00

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S SIPHON JET CLOSETS.

(MADDEN'S PATENT.)



FIG. 1131.

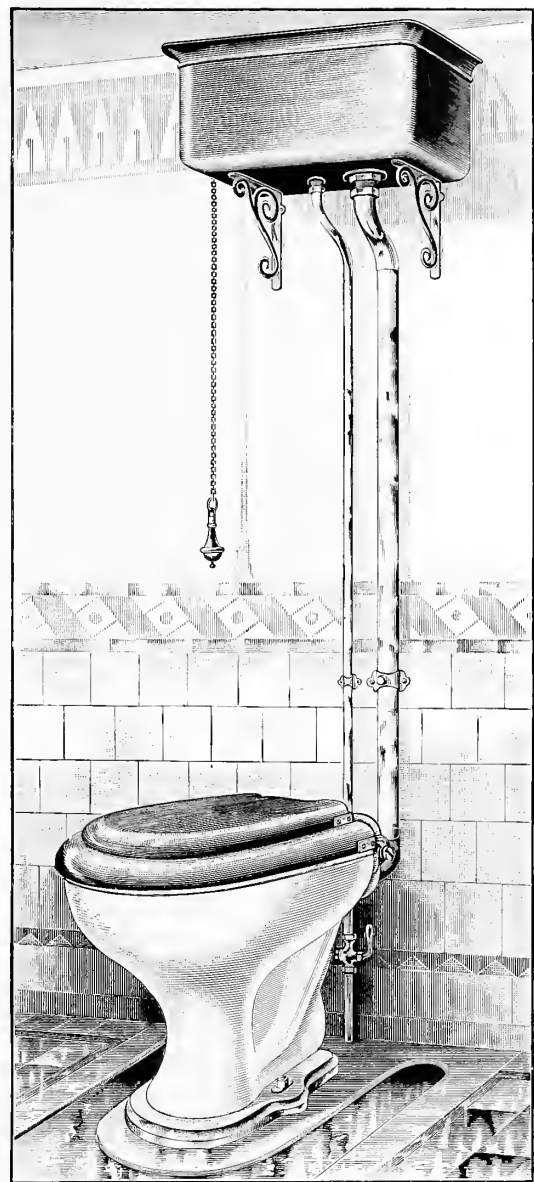


FIG. 1132.

Includes Square-back Siphon Jet Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1131. Embossed Closet, complete as described.	- - - - -	\$65.00
Fig. 1132. Plain Closet, complete as described.	- - - - -	63.00

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S SIPHON JET CLOSETS.

(MADDEN'S PATENT.)

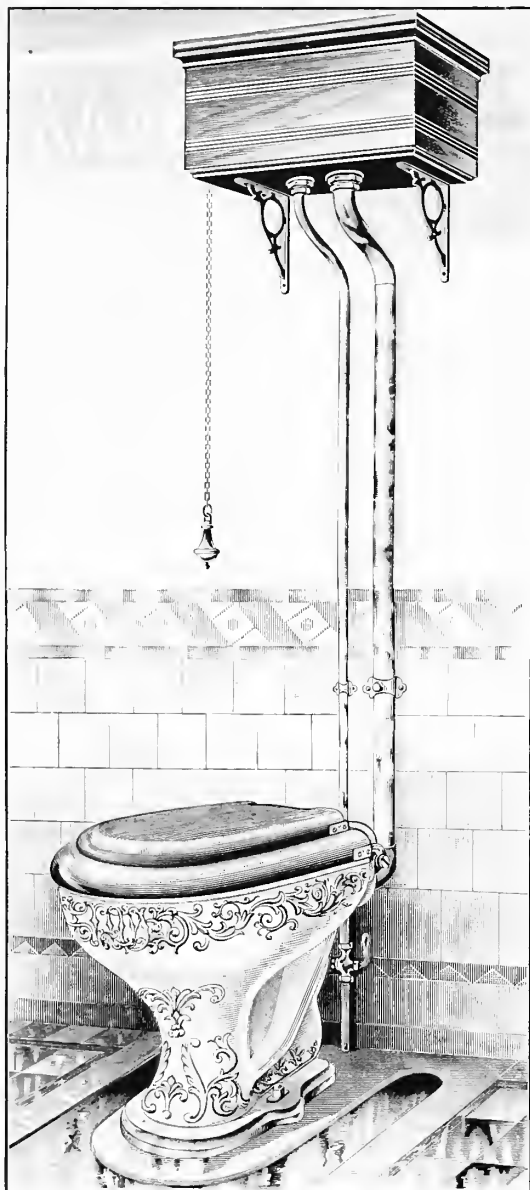


FIG. 1133.



FIG. 1134.

Includes Square-back Siphon Jet Closet, with Seat and Lid hinged to Bowl, Beaded Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffers, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1133.	Embossed Closet, complete as described,	\$63.00
Fig. 1134.	Plain Closet, complete as described,	61.00

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra. \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S SIPHON JET CLOSETS.

(MADDEN'S PATENT.)

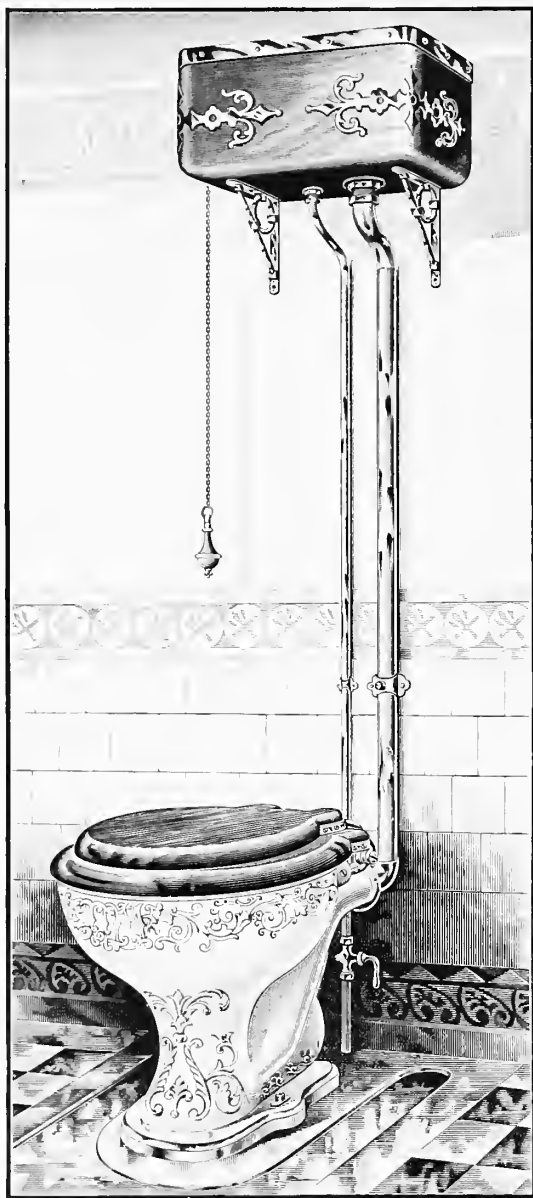


FIG. 1137.

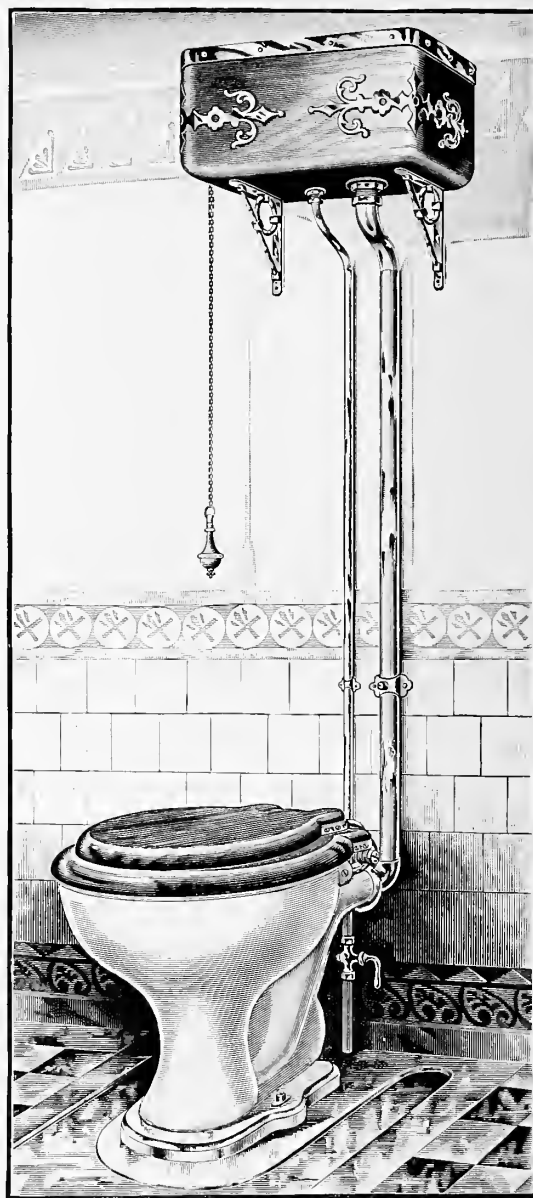


FIG. 1138.

Includes Oval Siphon Jet Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Tank Ornaments, Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1137. Embossed Closet, complete as described. - - - - - \$70.00
 Fig. 1138. Plain Closet, complete as described, - - - - - 68.00

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1 1/4 inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S SIPHON JET CLOSETS.

(MADDEN'S PATENT.)

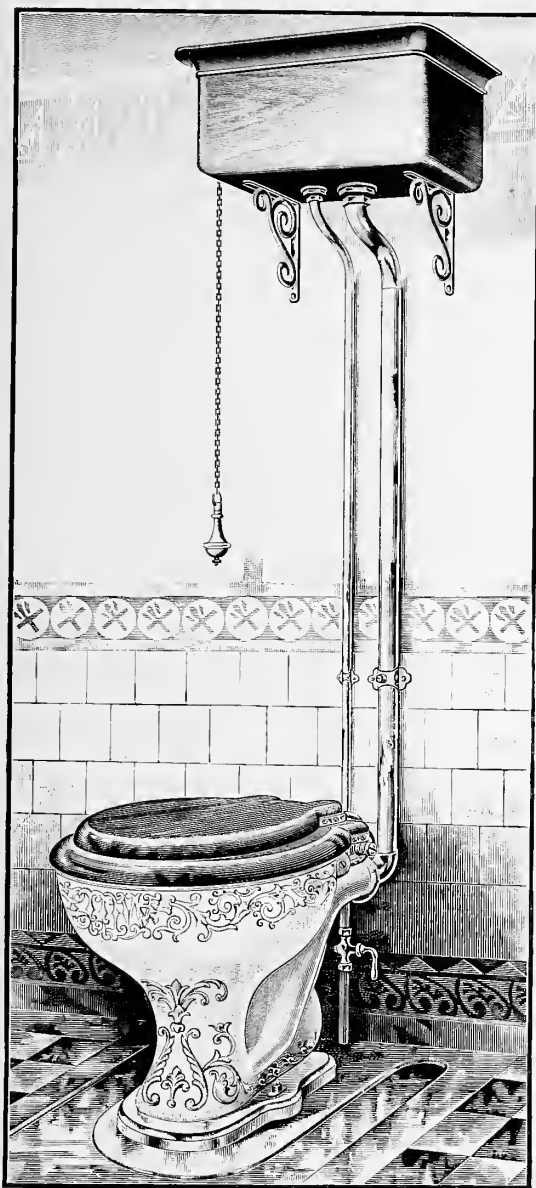


FIG. 1139.

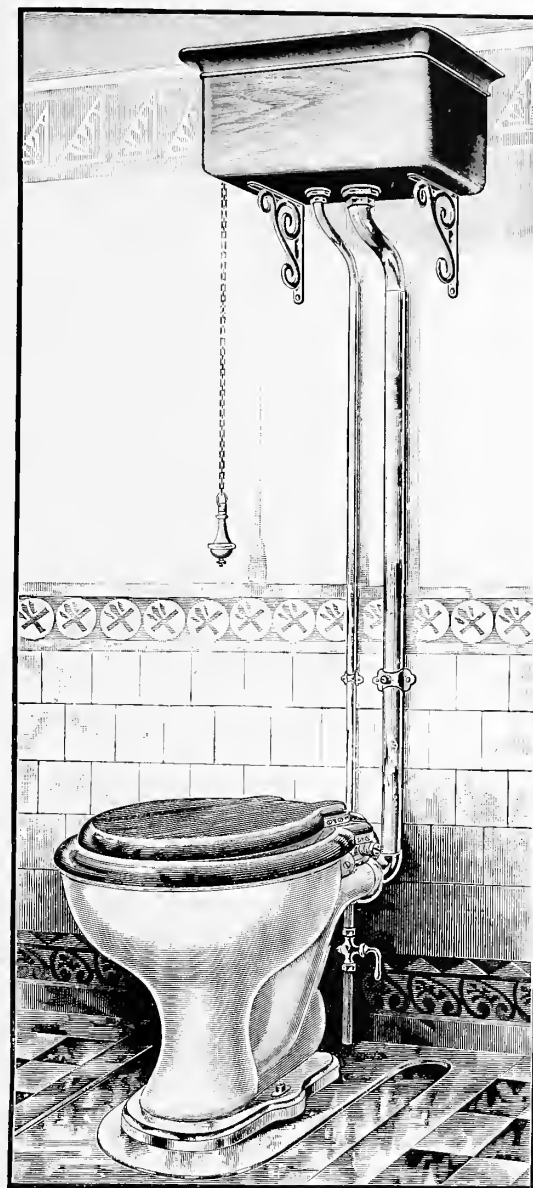


FIG. 1140.

Includes Oval Siphon Jet Closet, with Seat hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain. Pipe Holders with Buffers, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1139. Embossed Closet, complete as described,	\$60.00
Fig. 1140. Plain Closet, complete as described,	58.00

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S SIPHON JET CLOSETS.

(MADDEN'S PATENT.)

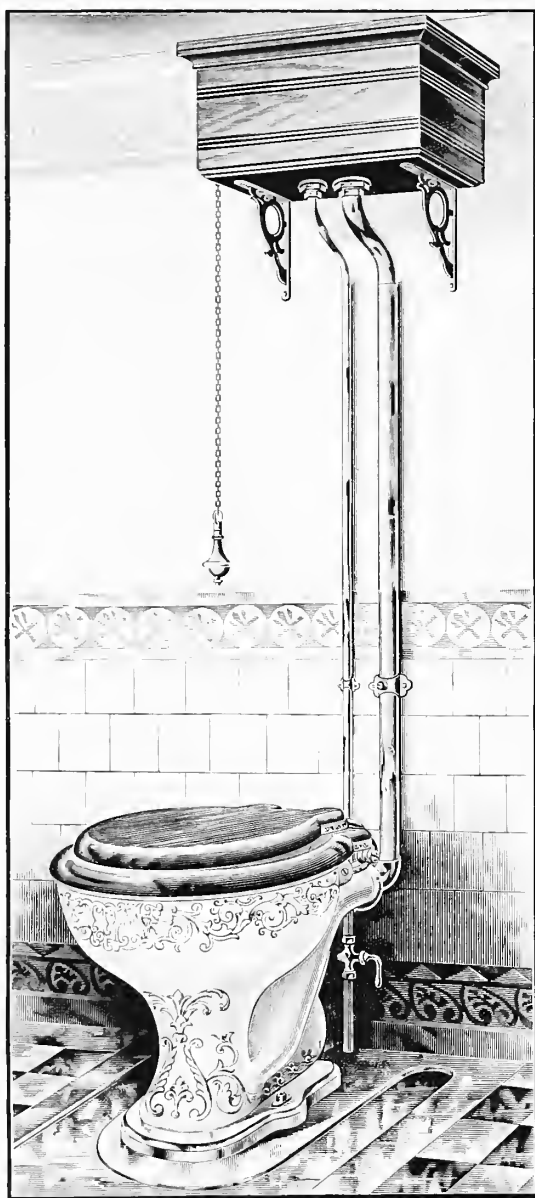


FIG. 1141.

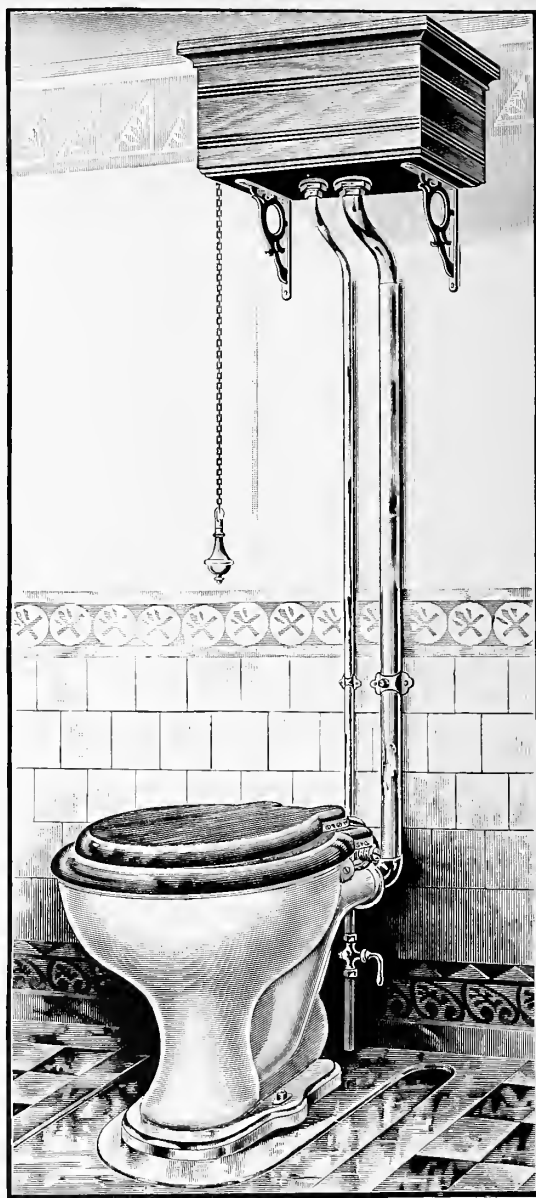


FIG. 1142.

Includes Oval Siphon Jet Closet, with Seat and Lid hinged to Bowl, Beaded Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1141. Embossed Closet, complete as described, - - - - -	\$58.00
Fig. 1142. Plain Closet, complete as described, - - - - -	56.00

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.

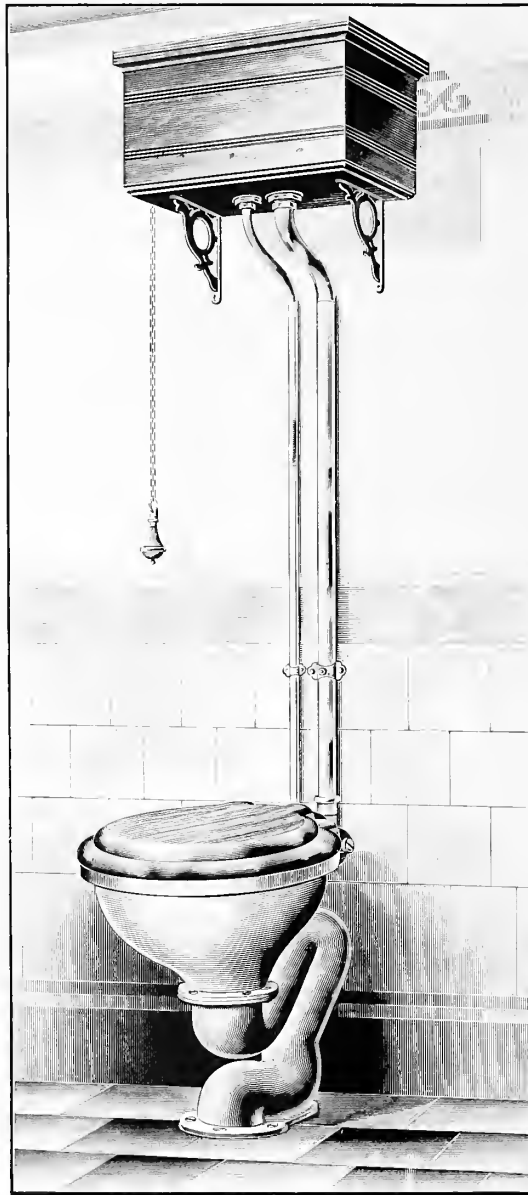
Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra. \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S ENAMELED IRON SIPHON JET CLOSETS.

(MADDEN'S PATENT.)

**FIG. 1145.**

Includes Iron Siphon Jet Closet, Enamelled Inside and Outside, with Seat and Lid hinged to Bowl, Tank 23 x 12 x 15 inches, with Nickel-plated Brackets, Brass Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer.

Complete as described, - - - - - \$46.00

If an Automatic Closet is not required, this is the most perfect closet made for use in factories and public buildings where closets will receive hard usage.

For Automatic Closet of this description, see Fig. 1204.

CLOW'S DOUBLE TRAP SIPHON CLOSETS.

(MADDEN'S PATENT.)



FIG. 1146.

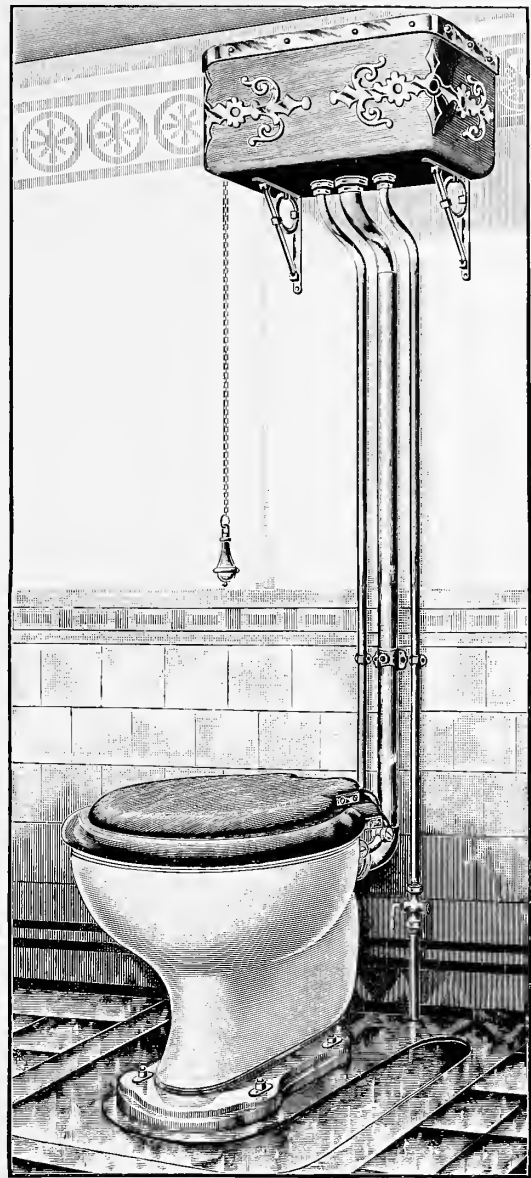


FIG. 1147.

Includes Double Trap Siphon Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Tank Ornaments, Brass Brackets, Flush, Supply, and Air Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1146.	Embossed Closet, complete as described,	\$72.00
Fig. 1147.	Plain Closet, complete as described,	70.00

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, \$8.00.

For roughing-in allow $17\frac{1}{2}$ inches from wall to center of outlet.

CLOW'S DOUBLE TRAP SIPHON CLOSETS.

(MADDEN'S PATENT.)

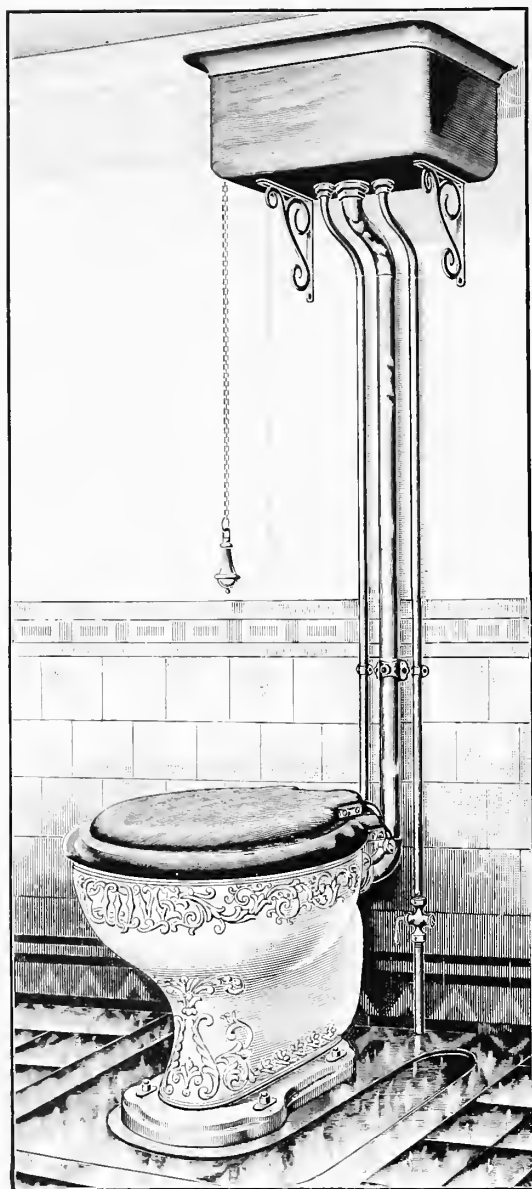


FIG. 1148.



FIG. 1149.

Includes Double Trap Siphon Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush, Supply, and Air Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1148. Embossed Closet, complete as described.

\$62.00

Fig. 1149. Plain Closet, complete as described.

60.00

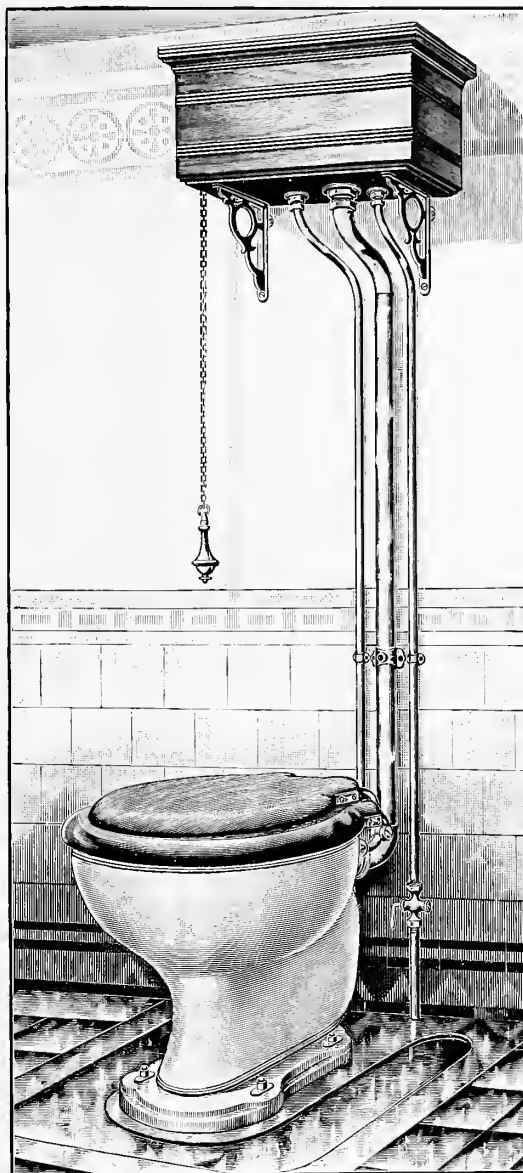
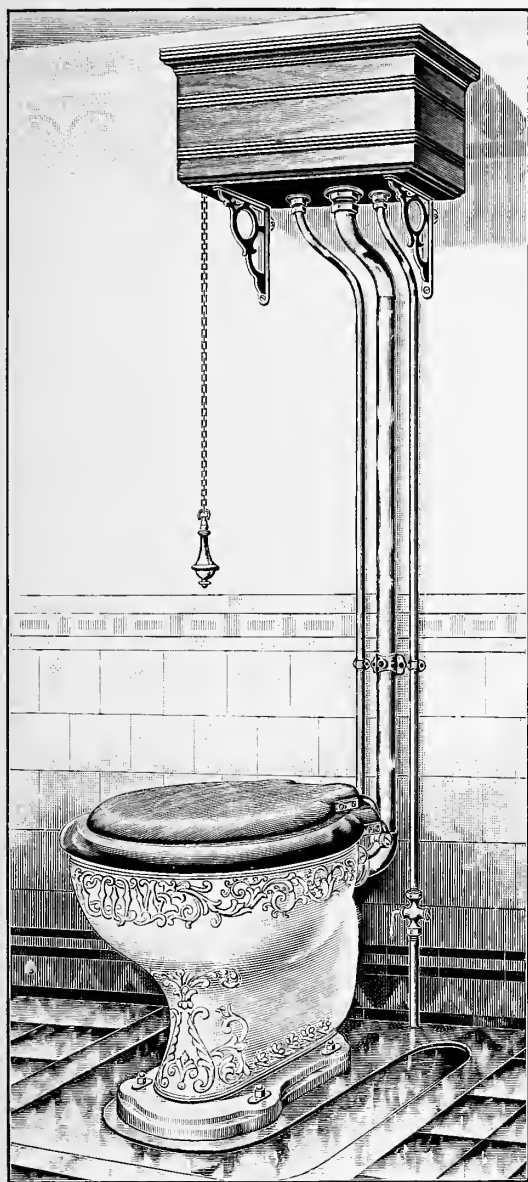
All Tanks for operating our Jet Closets contain sufficient water for three successive flushes. Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1 1/4 inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 17 1/2 inches from wall to center of outlet.

CLOW'S DOUBLE TRAP SIPHON CLOSETS.

(MADDEN'S PATENT.)



Includes Double Trap Siphon Closet, with Seat and Lid hinged to Bowl. Beaded Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush, Supply, and Air Pipes, Pull and Chain. Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

[illegible]

All Tanks for operating our Jet Closets contain sufficient water for three successive flushes.
Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White
or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.
Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.
For roughing-in allow 17½ inches, from wall to center of outlet.

CLOW'S PEDESTAL WASHOUT CLOSETS.

(MADDEN'S PATENT.)



FIG. 1154.

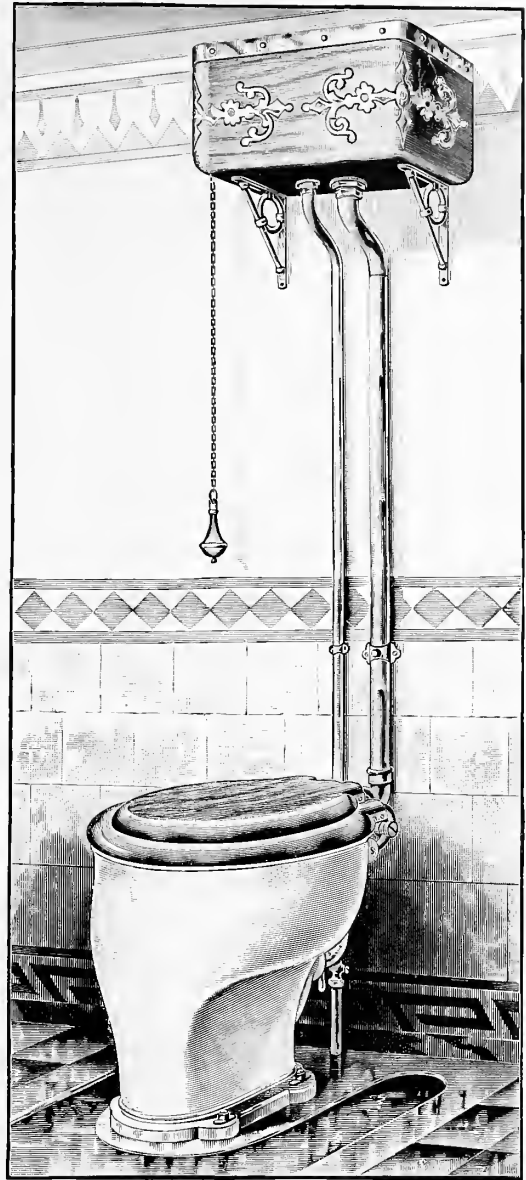


FIG. 1155.

Includes Oval Pedestal Washout Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel plated Tank Ornaments, Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1154.	Embossed Closet, complete as described,	\$60.00
Fig. 1155.	Plain Closet, complete as described,	58.00

All Tanks for operating our Pedestal Washout Closets contain sufficient water for three successive flushes. Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1 1/4 inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 12 inches from wall to center of outlet.

CLOW'S PEDESTAL WASHOUT CLOSETS.

(MADDEN'S PATENT.)



FIG. 1156.

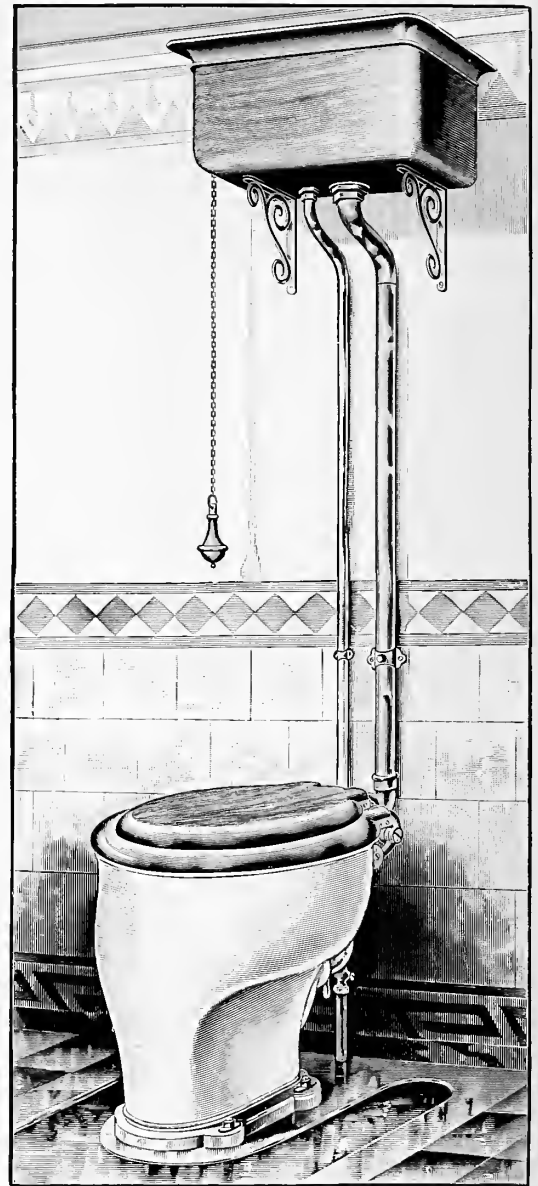


FIG. 1157.

Includes Oval Pedestal Washout Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1156.	Embossed Closet, complete as described,	\$50.00
Fig. 1157.	Plain Closet, complete as described,	48.00

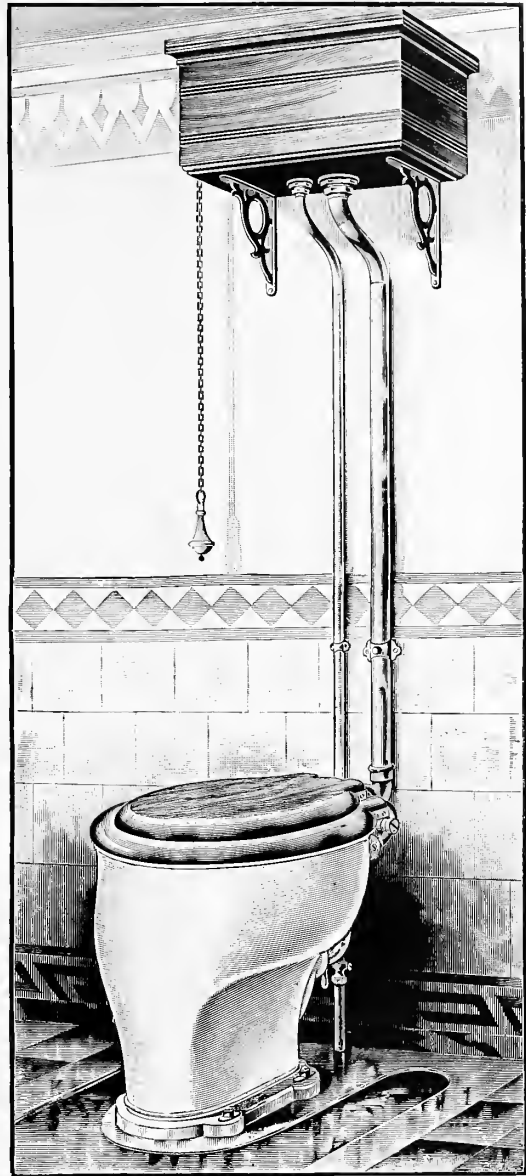
All Tanks for operating our Pedestal Washout Closets contain sufficient water for three successive flushes. Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 12 inches from wall to center of outlet.

CLOW'S PEDESTAL WASHOUT CLOSETS.

(MADDEN'S PATENT.)



Includes Oval Pedestal Washout Closet, with Seat and Lid hinged to Bowl. Beaded Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

[illegible]

All Tauks for operating our Pedestal Washout Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26x26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 12 inches from wall to center of outlet.

CLOW'S WASHOUT CLOSETS, FRONT OUTLET.

(MADDEN'S PATENT.)

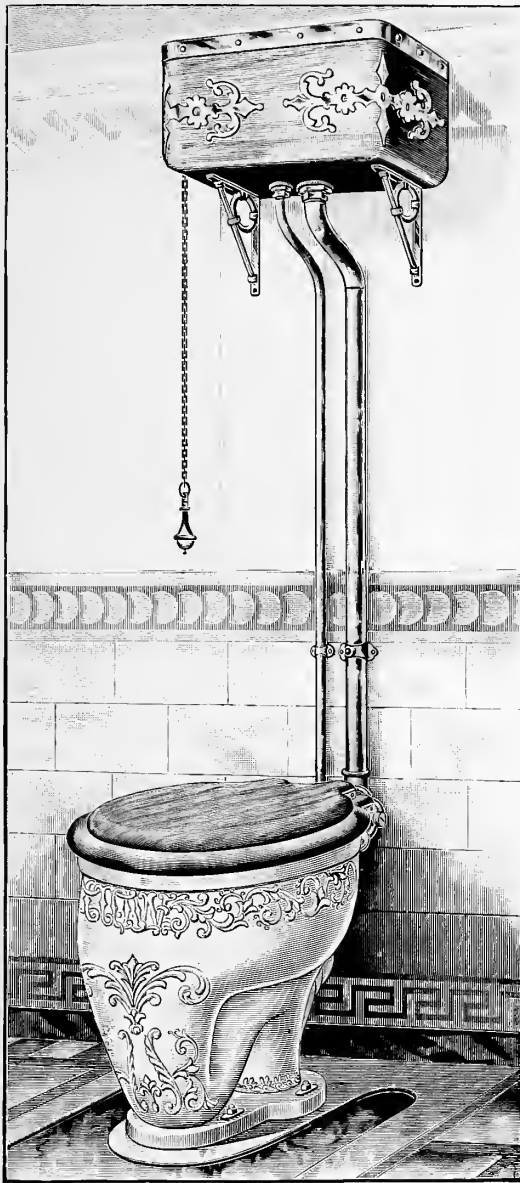


FIG. 1162.

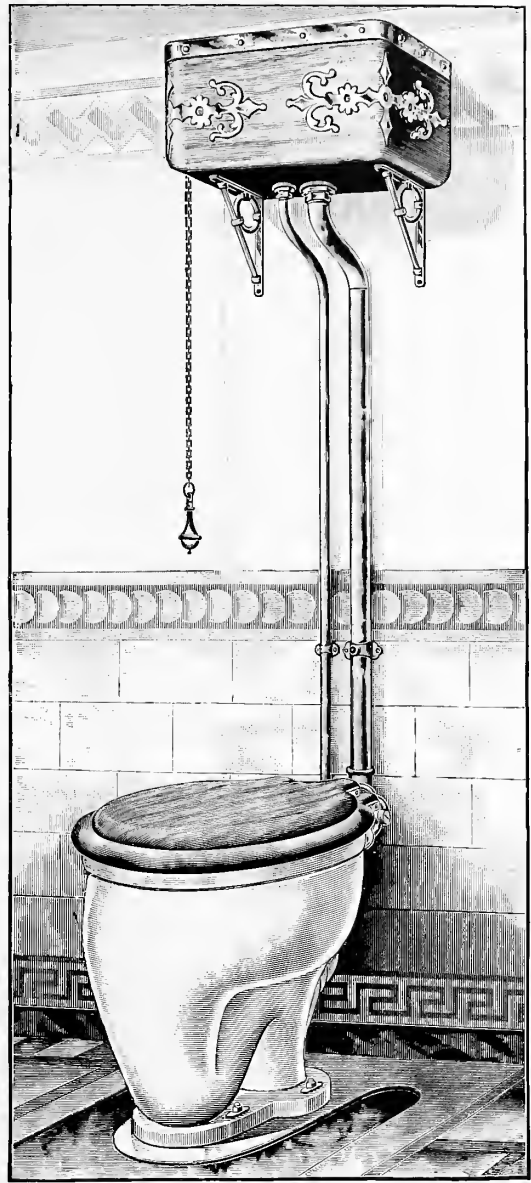


FIG. 1163.

Includes Front Outlet Washout Closet, with Seat and Lid hinged to Bowl. Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Tank Ornaments, Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1162. Embossed Closet, complete as described, - - - - - \$58.00
 Fig. 1163. Plain Closet, complete as described, - - - - - 56.00

All Tanks for operating our Washout Closets contain sufficient water for three successive flushes.
 Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 12 inches from wall to center of outlet.

CLOW'S WASHOUT CLOSETS, FRONT OUTLET.

(MADDEN'S PATENT.)

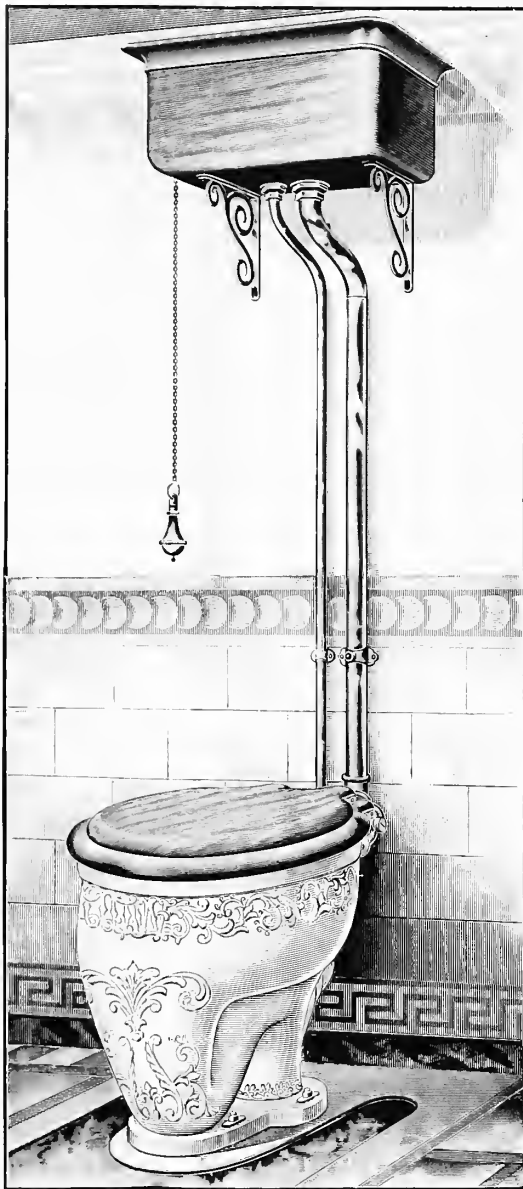


FIG. 1164.

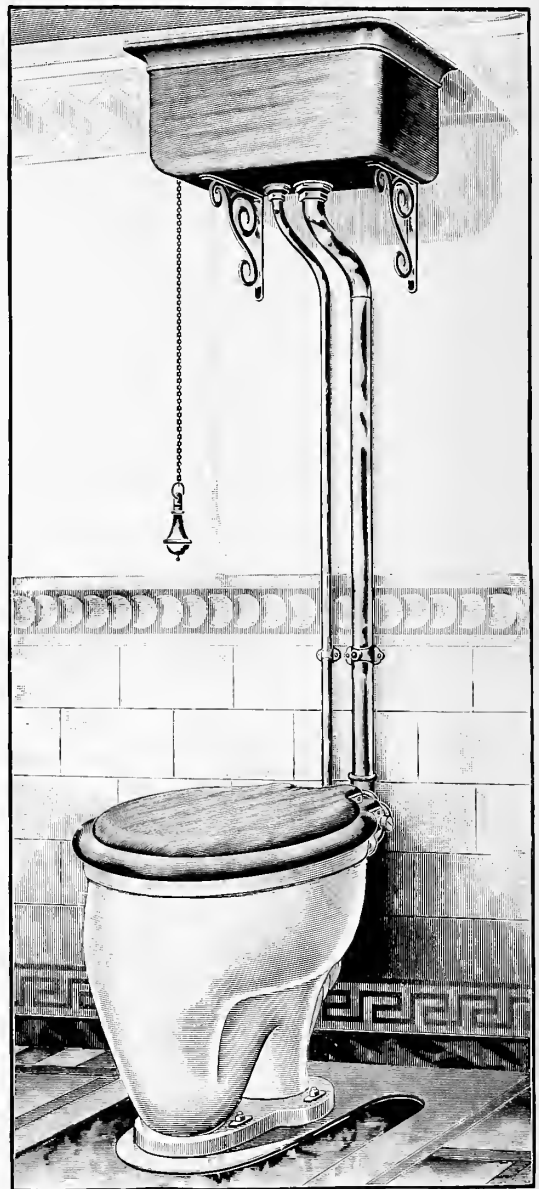


FIG. 1165.

Includes Front Outlet Washout Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1164.	Embossed Closet, complete as described,	\$48.00
Fig. 1165.	Plain Closet, complete as described,	46.00

All Tanks for operating our Washout Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 12 inches from wall to center of outlet.

CLOW'S WASHOUT CLOSETS, BACK OUTLET.

(MADDEN'S PATENT.)



FIG. 1170.

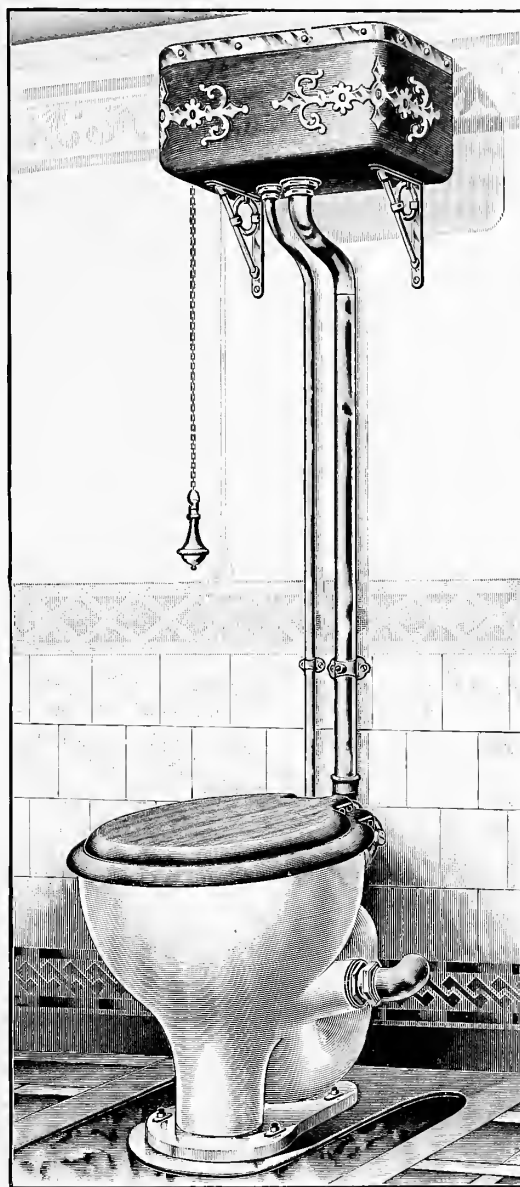


FIG. 1171.

Includes Back Outlet, Washout Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23 x 12 x 15 inches, with Nickel-plated Tank Ornaments, Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1170. Embossed Closet, complete as described,	- - - - -	\$58.00
Fig. 1171. Plain Closet, complete as described,	- - - - -	56.00

All Tanks for operating our Washout Closets contain sufficient water for three successive flushes.
Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.
For roughing-in allow 14 inches from wall to center of outlet.

CLOW'S WASHOUT CLOSETS, BACK OUTLET.

(MADDEN'S PATENT.)

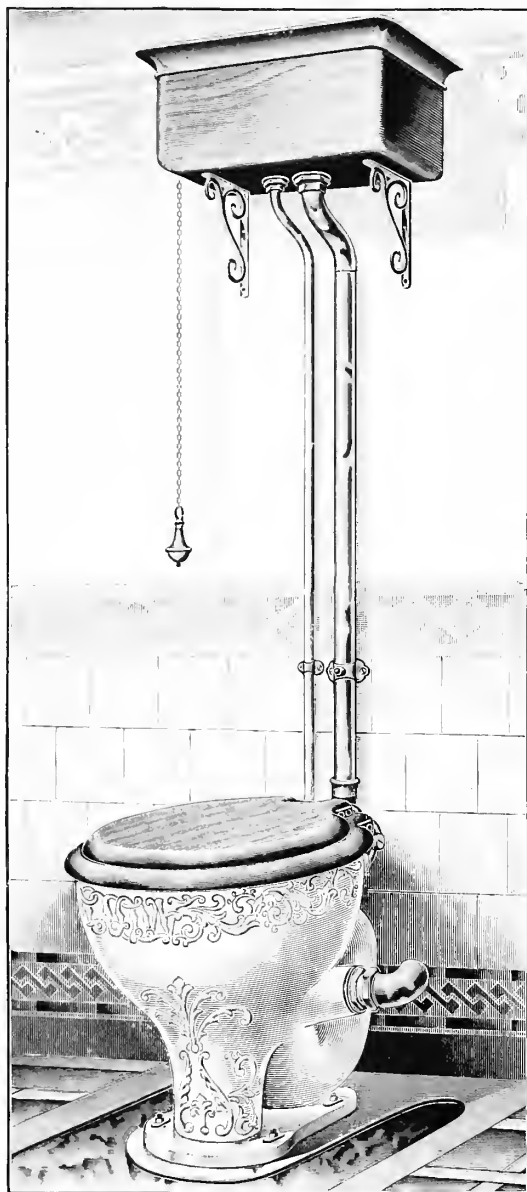


FIG. 1172.



FIG. 1173.

Includes Back Outlet, Washout Closet, with Seat and Lid hinged to Bowl, Round Cornered Tank 23x12x15 inches, with Nickel-plated Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1172. Embossed Closet, complete as described,	\$48.00
Fig. 1173. Plain Closet, complete as described,	46.00

All Tanks for operating our Washout Closets contain sufficient water for three successive flushes.
Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra, \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1 1/4 inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 14 inches from wall to center of outlet.

CLOW'S WASHOUT CLOSETS, BACK OUTLET.

(MADDEN'S PATENT.)



FIG. 1176.



FIG. 1177.

Includes Back Outlet, Washout Closet, with Seat and Lid hinged to Bowl, Plain Tank 23 x 12 x 15 inches, with Nickel-plated Iron Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1176.	Embossed Closet, complete as described,	\$41.00
Fig. 1177.	Plain Closet, complete as described,	39.00

All Tanks for operating our Washout Closets contain sufficient water for three successive flushes.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 14 inches from wall to center of outlet.

CLOW'S WASHDOWN CLOSETS.

(MADDEN'S PATENT.)

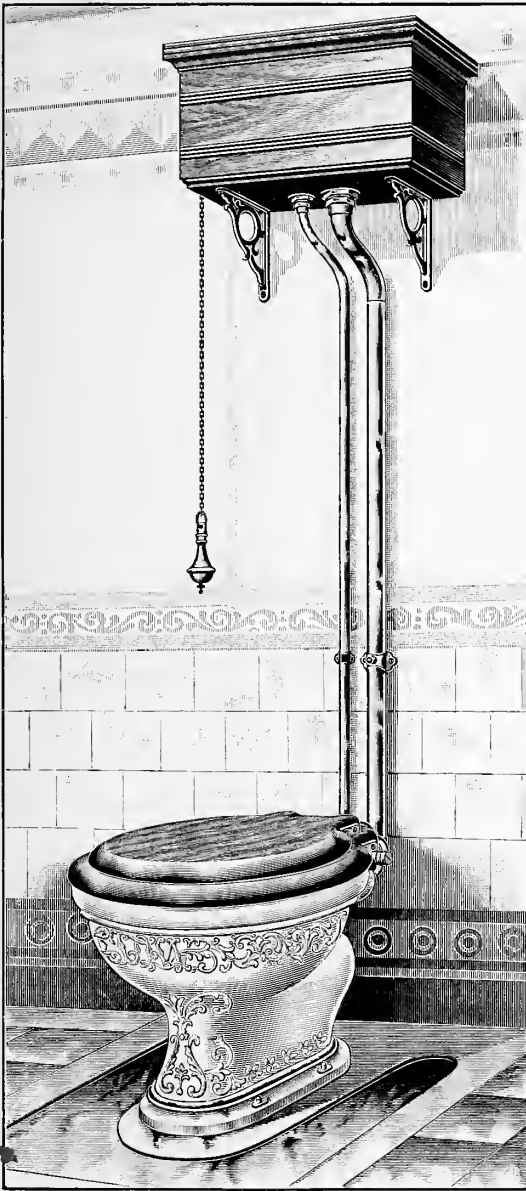


FIG. 1178.

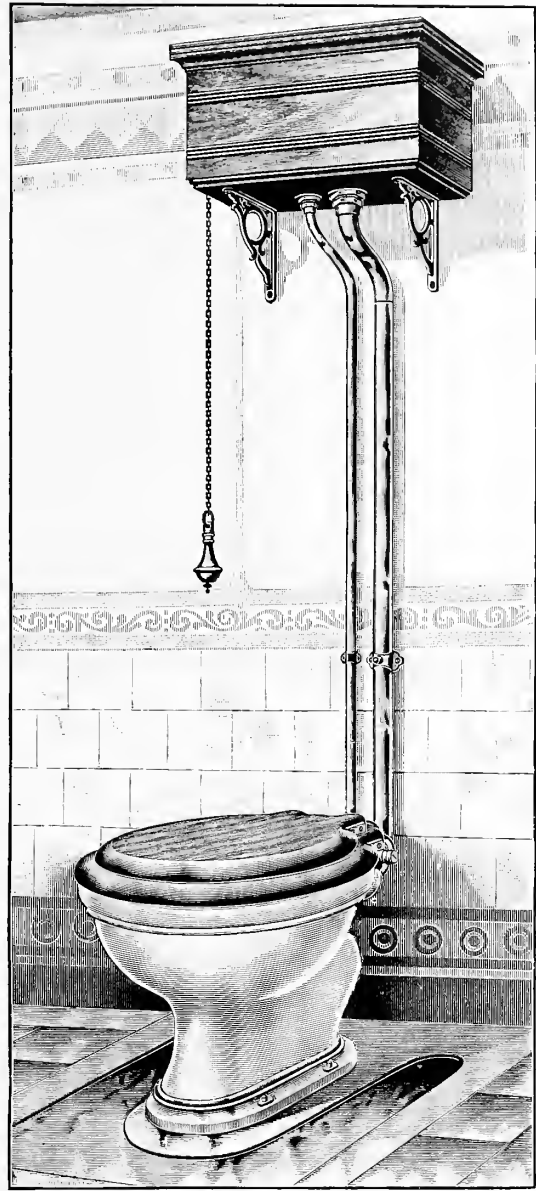


FIG. 1179.

Includes Washdown Closet, with Seat and Lid hinged to Bowl, Beaded Tank 23 x 12 x 15 inches, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1178. Embossed Closet, complete as described,	- - - - -	\$58.00
Fig. 1179. Plain Closet, complete as described,	- - - - -	56.00

All Tanks for operating our Washout Closets contain sufficient water for three successive flushes.

Oak and Cherry Tanks and Seats carried in stock. Quartered Oak, Sycamore, Walnut, or Ash furnished to order without extra cost. White or Bird's-eye Maple, Red or White Mahogany, extra. \$4.00.

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 6½ inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

(MADDEN'S PATENT.)



FIG. 1182.

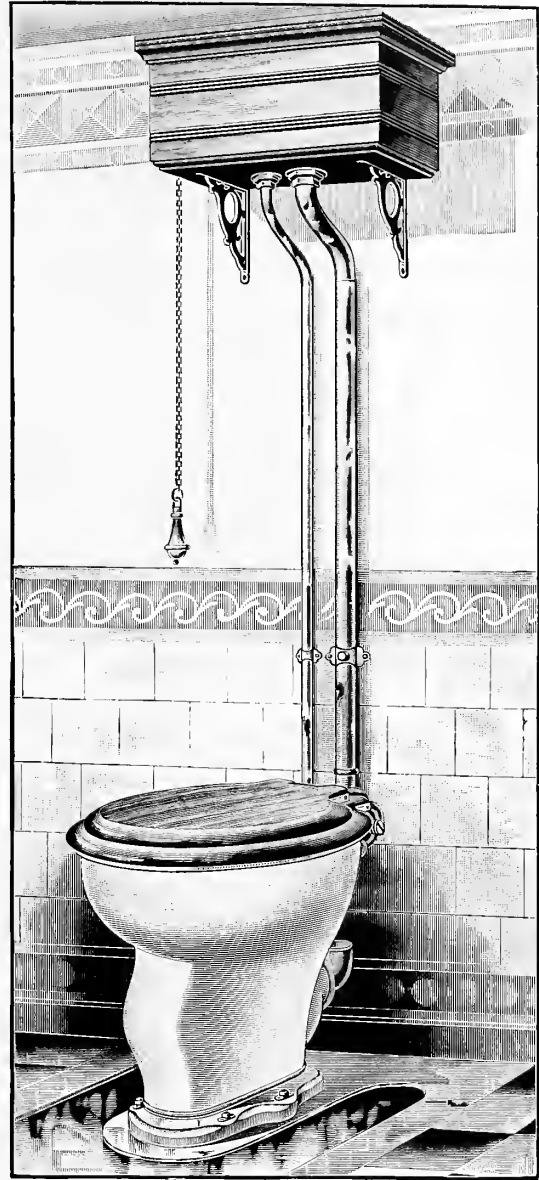


FIG. 1183.

Includes Oval Combined Hopper and Trap, with Seat and Lid hinged to Bowl, Cherry or Oak Single Discharge Siphon Tank, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1182. Embossed Closet, complete as described, with Round Cornered Tank,	\$36.00
Fig. 1183. Plain Closet, complete as described, with Beaded Tank,	32.00
If without Nickel-plated Flush and Supply Pipes, deduct	7.00

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 15 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

(MADDEN'S PATENT.)

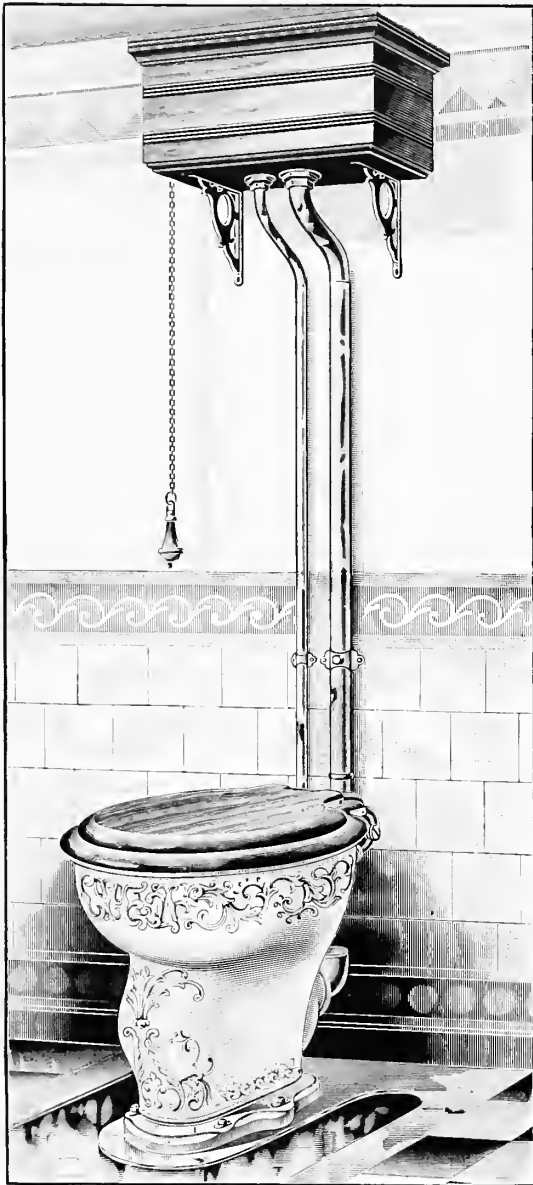


FIG. 1184.



FIG. 1185

Includes Oval Combined Hopper and Trap, with Seat and Lid hinged to Bowl, Single Discharge Siphon Tank, with Nickel-plated Brass Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1184. Embossed Closet, complete as described, with Cherry or Oak Beaded Tank.	\$34.00
Fig. 1185. Plain Closet, complete as described, with Plain Tank.	30.00
If without Nickel-plated Flush and Supply Pipes, deduct	7.00

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 15 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

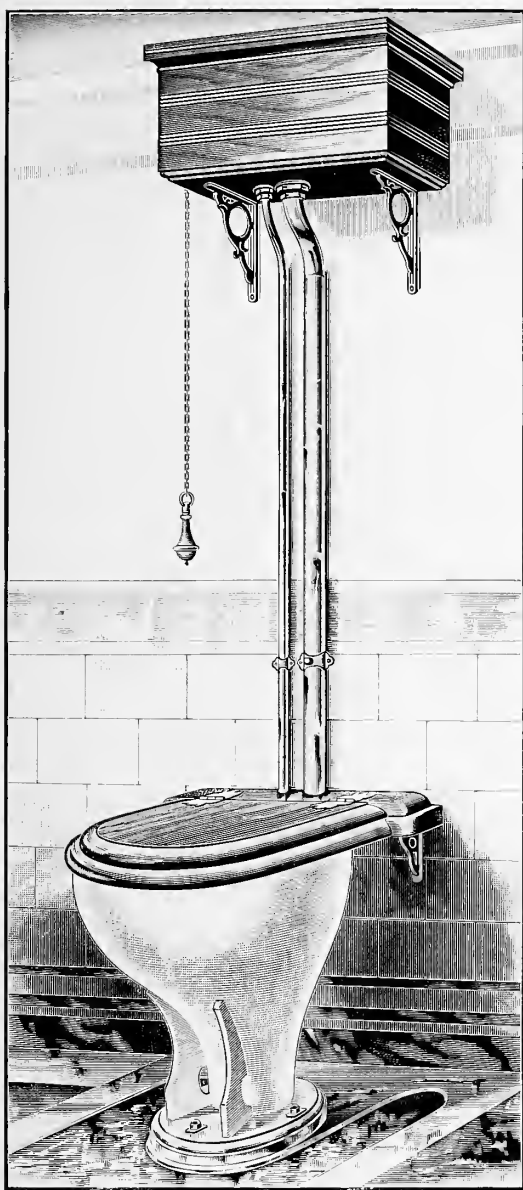


FIG. 1186.

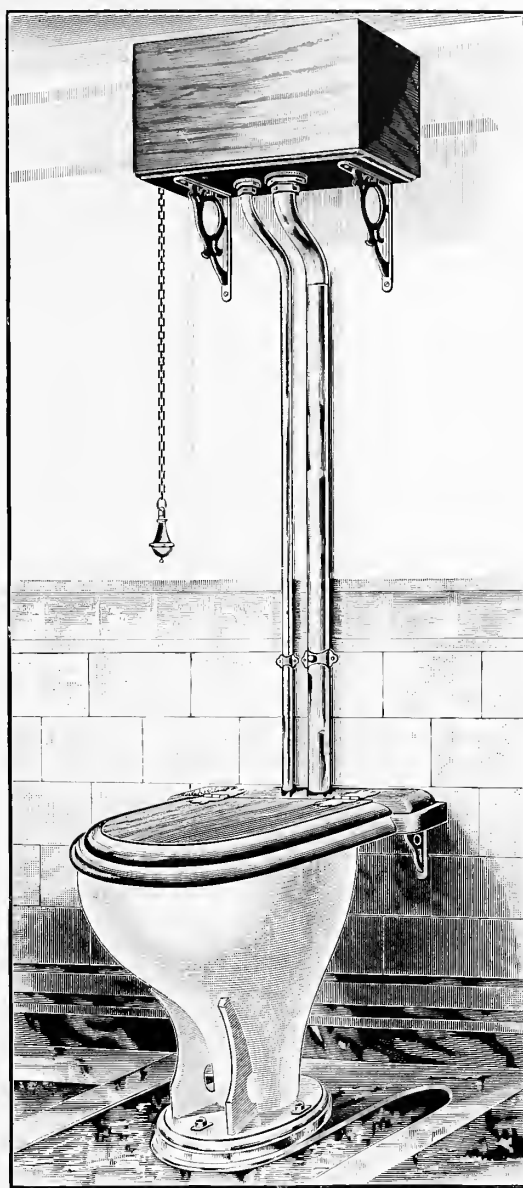


FIG. 1187.

Includes Tall Oval Flushing Rim Hopper, with Single Discharge Siphon Tank, Seat and Cover, with Nickel-plated Iron Tank and Seat Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, and Bolts.

Fig. 1186. Complete as described, with Beaded Cherry or Oak Tank,	-	-	-	-	-	-	-	\$22.00
Fig. 1187. Complete as described, with Plain Tank,	-	-	-	-	-	-	-	20.00
If without Nickel-plated Flush and Supply Pipes, deduct	-	-	-	-	-	-	-	7.00

Italian Marble Floor Slab, 26 x 26 inches, 1½ inches thick, countersunk to fit closet, as shown, add \$8.00.

For roughing-in allow 12 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

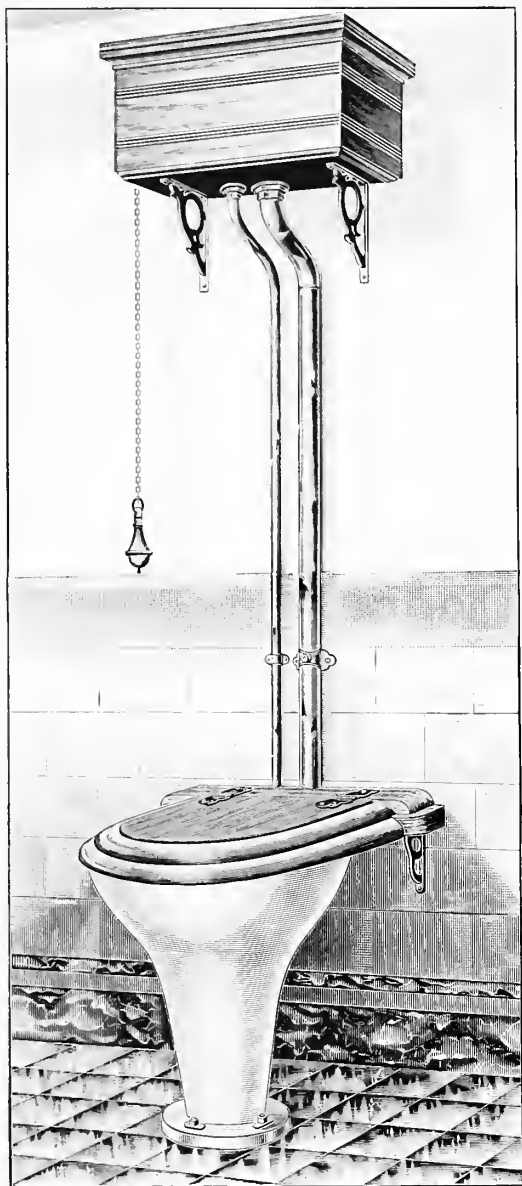


FIG. 1188.



FIG. 1189.

Includes Tall Round Flushing Rim Hopper, with Single Discharge Siphon Tank and Seat, Nickel-plated Iron Tank and Seat Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, and Bolts.

Fig. 1188. Complete as described, with Cherry or Oak Beaded Tank.	\$20.00
Fig. 1189. Complete as described, with Plain Tank.	18.00
If without Nickel-plated Flush and Supply Pipes, deduct	7.00

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

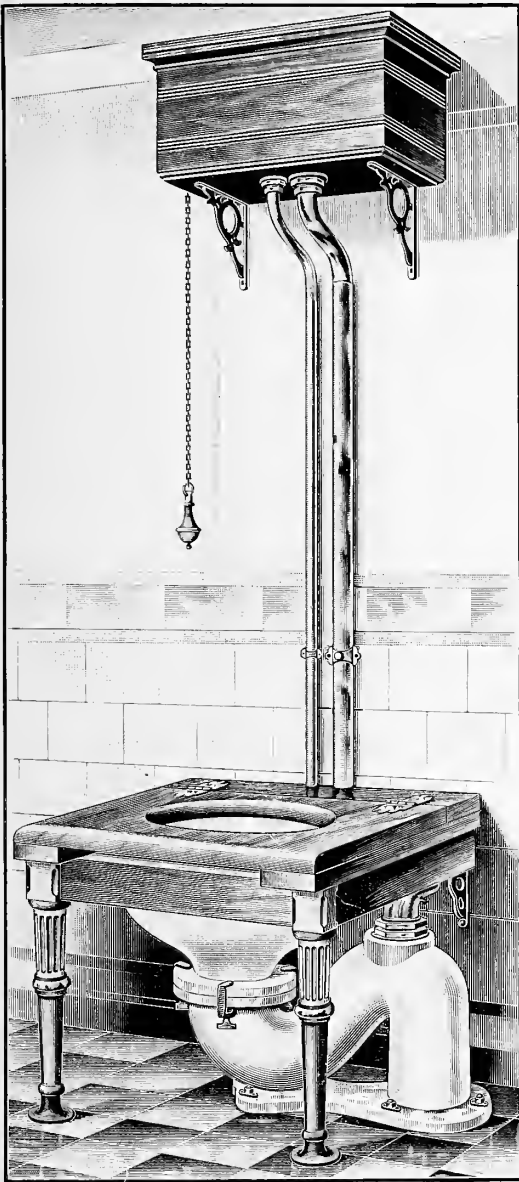


FIG. 1190.

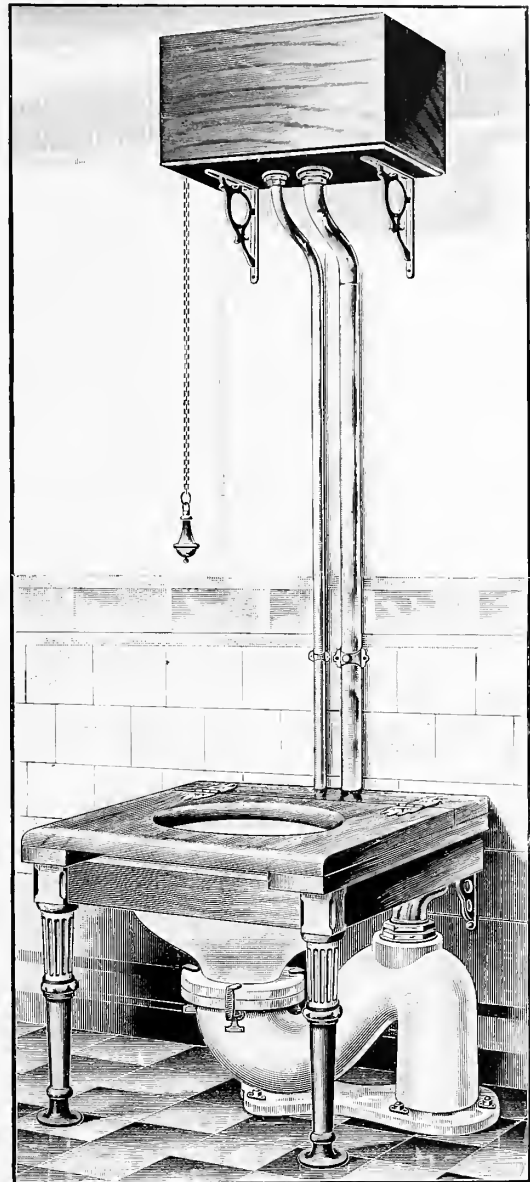


FIG. 1191.

Includes Short Oval Flushing Rim Hopper and Trap, with Single Discharge Siphon Tank, Seat with Painted Legs, Nickel-plated Iron Tank Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, and Bolts.

Fig. 1190. Complete as described, with Beaded Cherry or Oak Tank.	-	-	-	-	-	-	-	-	-	\$26.00
Fig. 1191. Complete as described, with Plain Tank.	-	-	-	-	-	-	-	-	-	24.00
If with Seat Cover, add	-	-	-	-	-	-	-	-	-	1.00
If without Nickel-plated Flush and Supply Pipes, deduct	-	-	-	-	-	-	-	-	-	7.00

For roughing-in, when set as shown, allow 11 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

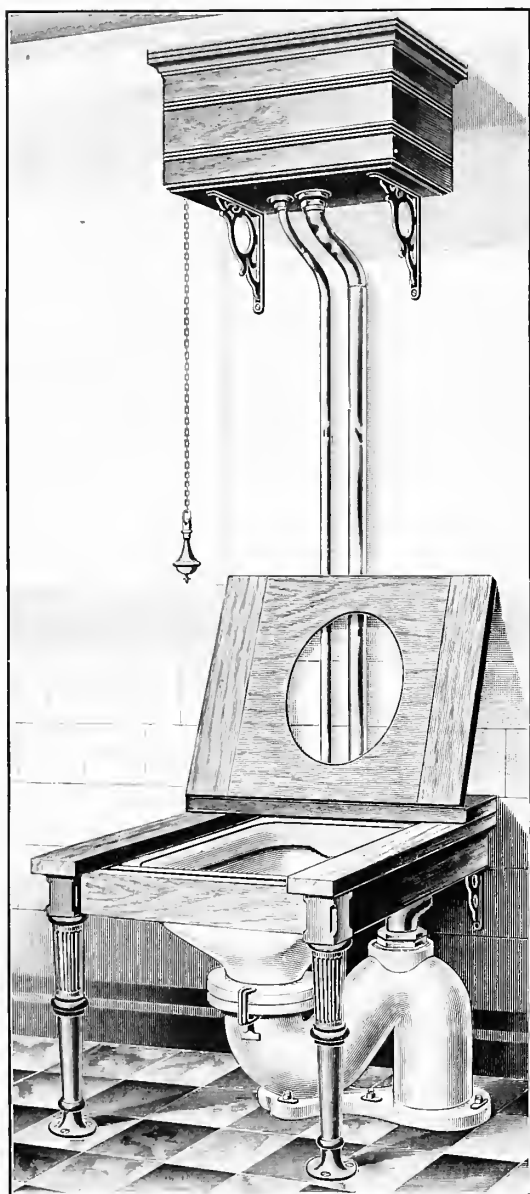


FIG. 1192.

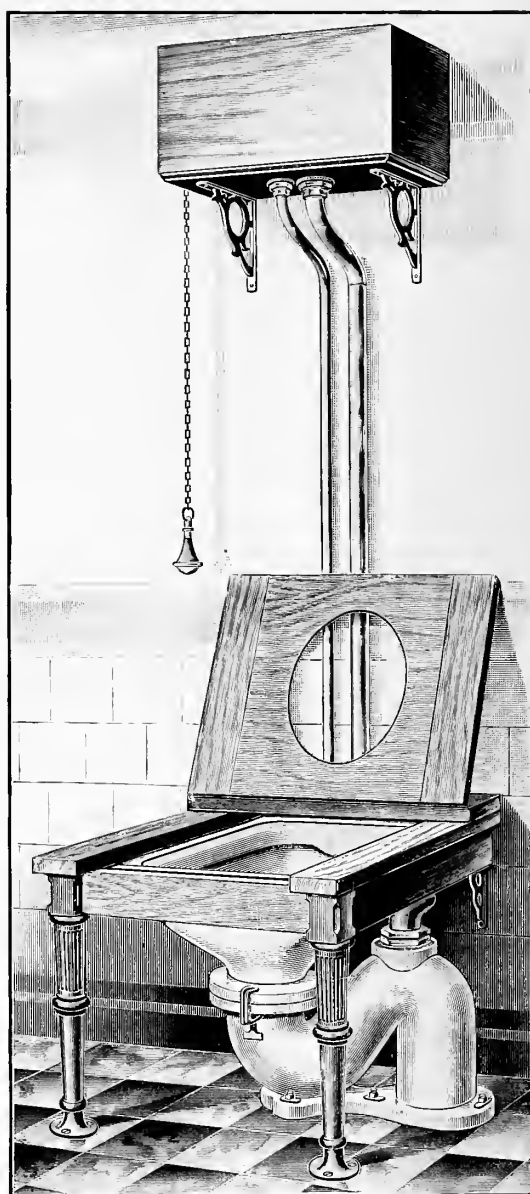


FIG. 1193.

Includes Short Square Flushing Rim Hopper and Trap, with Single Discharge Siphon Tank, Seat and Painted Legs, Nickel-plated Iron Tank Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, and Bolts.

Fig. 1192. Complete as described, with Beaded Cherry or Oak Tank,	-	-	-	-	-	-	-	-	\$28.00
Fig. 1193. Complete as described, with Plain Tank.	-	-	-	-	-	-	-	-	26.00
If with Seat Cover, add	-	-	-	-	-	-	-	-	1.00
If without Nickel-plated Flush and Supply Pipes, deduct	-	-	-	-	-	-	-	-	7.00

For roughing-in, when set as shown, allow 12 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

(SEAT OPERATING.)

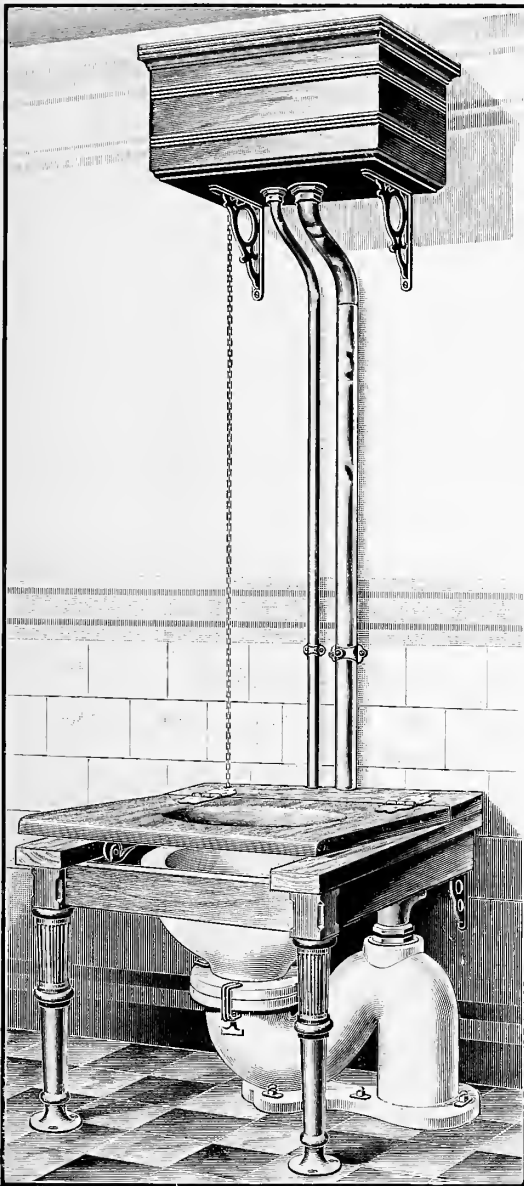


FIG. 1194.

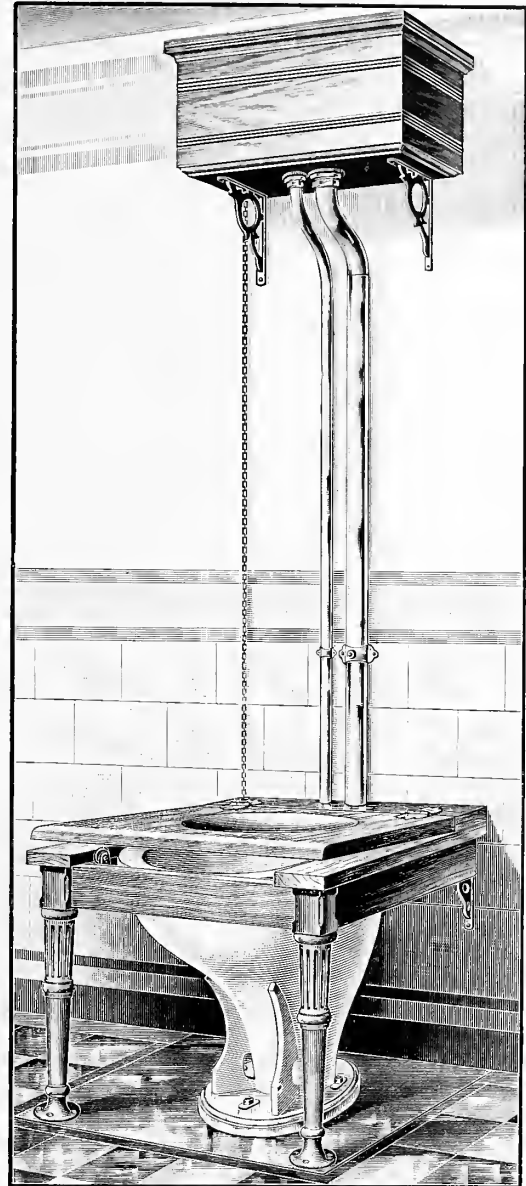


FIG. 1195.

Fig. 1194 includes Short Oval Flushing Rim Hopper and Trap, with Beaded Cherry or Oak Fore and After Wash Tank, Seat with operating attachments and painted legs, Nickel-plated Iron Tank Brackets, Flush and Supply Pipes, Pipe Holders with Buffer, Bolts, and Chain.

Fig. 1195 includes Tall Oval Flushing Rim Hopper, Beaded Cherry or Oak Fore and After Wash Tank, Seat with operating attachments and painted legs, Nickel-plated Iron Tank Brackets, Flush and Supply Pipes, Pipe Holders with Buffer, Bolts, and Chain.

Fig. 1194. Complete as described, - - - - - \$32.00

Fig. 1195. Complete as described, - - - - - 31.00

If without Nickel-plated Flush and Supply Pipes, deduct - - - - - 7.00

CLOW'S HOPPER CLOSETS.

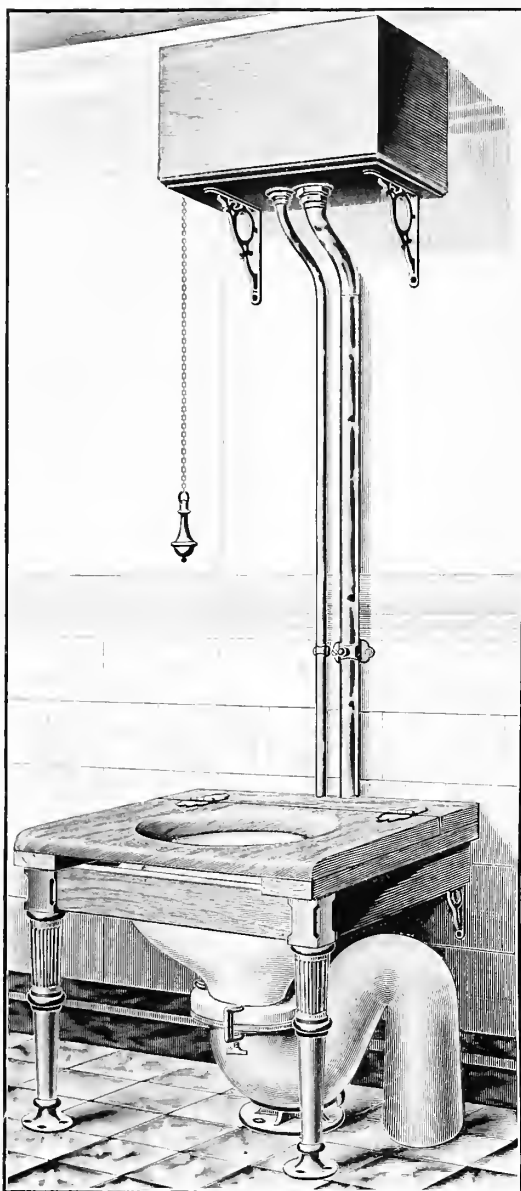


FIG. 1196.



FIG. 1197.

Includes Short Oval Earthenware Flushing Rim Hopper, with Trap as listed, Plain Single Discharge Siphon Tank, Cherry or Oak Seat with Painted Legs, Nickel-plated Iron Tank Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer, Clamps, and Bolts.

Fig. 1196. Complete as described with High Cast Lead Trap, with Iron Ferrule,	\$30.00
Fig. 1197. Complete as described with Enameled Inside and Outside Iron Trap, with Vent Coupling,	26.00
If with Seat Cover, add	1.00
If without Nickel-plated Flush and Supply Pipes, deduct	7.00

For roughing-in, when set as shown, allow 11 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.



FIG. 1198.

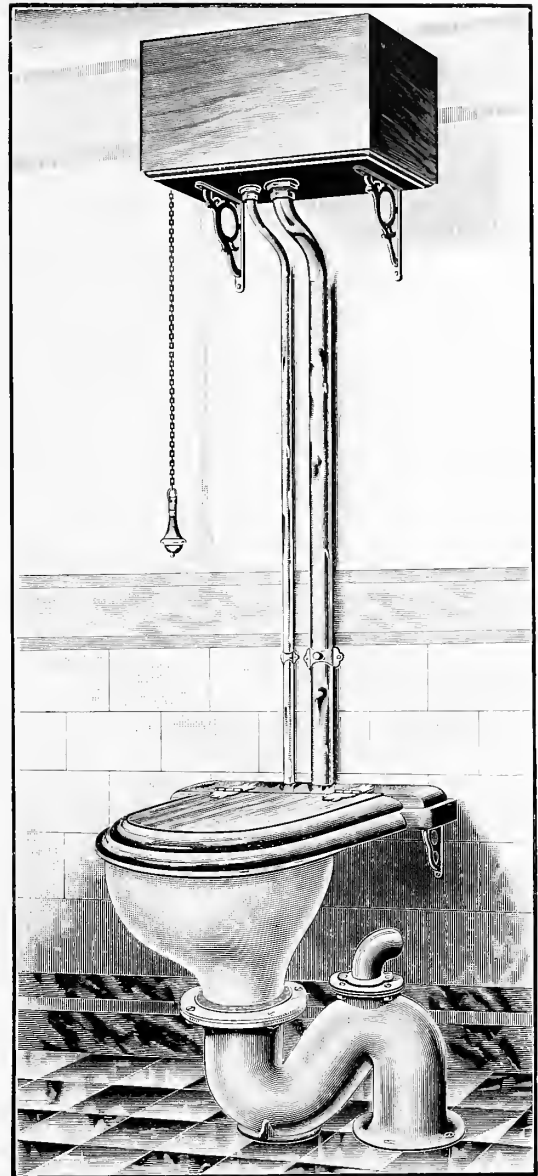


FIG. 1199.

Includes Enameled Inside and Outside Short Oval Flushing Rim Hopper and Trap, with Vent and Seat, Plain Single Discharge Siphon Tank, Nickel-plated Iron Tank Brackets, Flush and Supply Pipes, Pull and Chain, Pipe Holders with Buffer.

Fig. 1198. Complete as described, with Self-raising Seat,	- - - - -	\$24.00
Fig. 1199. Complete as described, with Cherry or Oak Seat and Seat Brackets,	- - - - -	22.00
If without Nickel-plated Flush and Supply Pipes, deduct	- - - - -	7.00

For roughing-in, when set as shown, allow 11 inches from wall to center of outlet.

CLOW'S HOPPER CLOSETS.

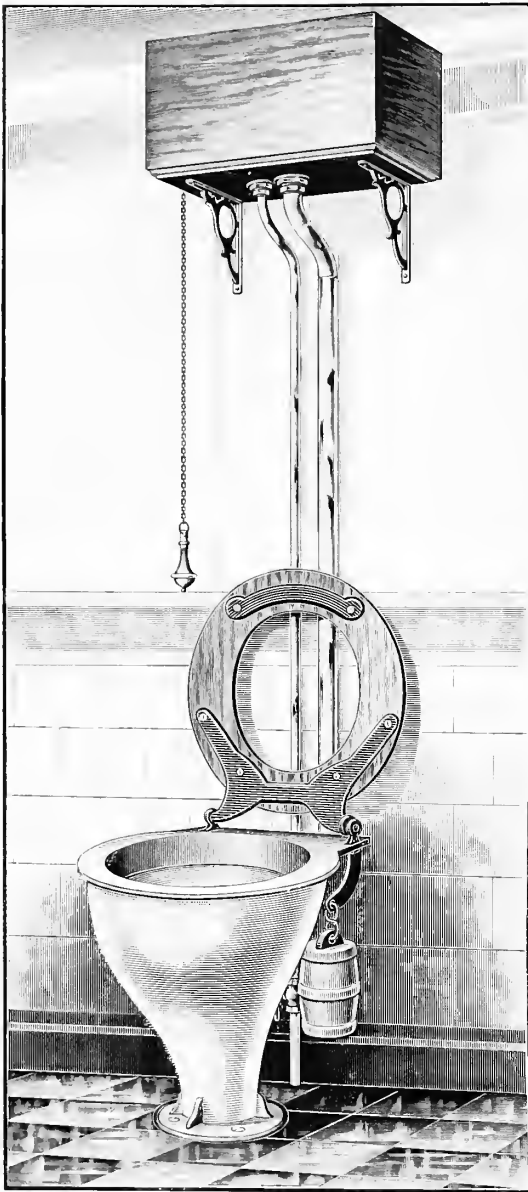


FIG. 1200.

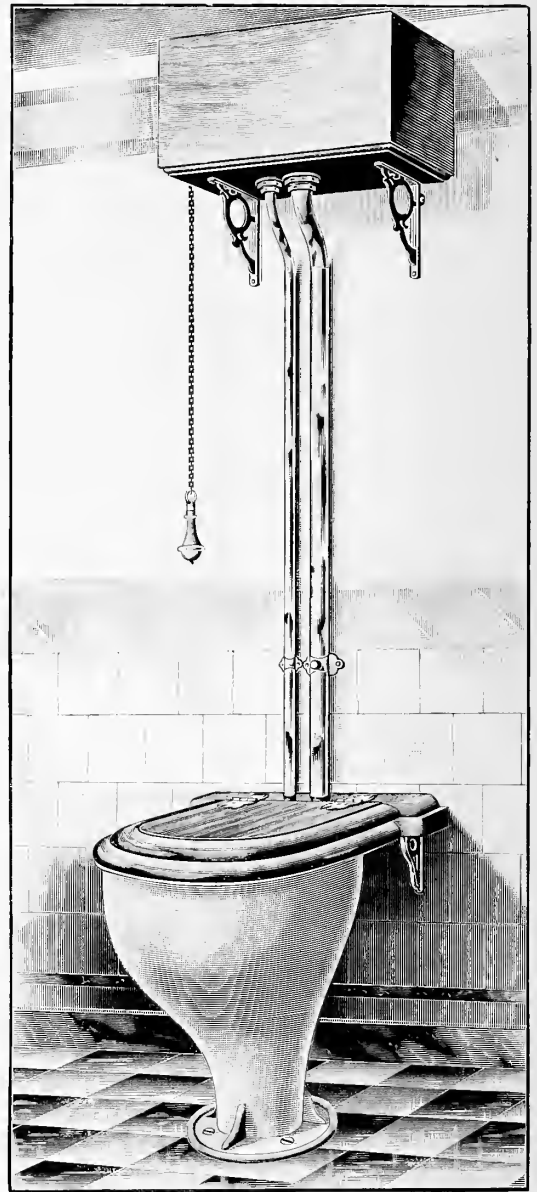


FIG. 1201.

Includes Enameled Inside and Outside Tall Oval Flushing Rim Hopper, with Seat, Plain Single Discharge Siphon Tank, Nickel-plated Iron Tank Brackets, Flush and Supply Pipes, Pull and Chain.
Pipe Holders with Buffer.

Fig. 1200. Complete as described, with Self-raising Seat,	\$22.00
Fig. 1201. Complete as described, with Cherry or Oak Seat and Seat Brackets,	21.00
If without Nickel-plated Flush and Supply Pipes, deduct	7.00

For roughing-in allow 11 inches from wall to center of outlet.

CLOW'S AUTOMATIC SIPHON JET CLOSETS.

(MADDEN'S PATENT.)



FIG. 1202.



FIG. 1203.

Includes Oval Siphon Jet Closet, with Automatic Valve, Seat and Lid attached to Bowl, Galvanized Iron Closed Tank incased in Nickel-plated Ornamental Brass Cover, Nickel-plated Brackets, and Flush Pipe with Protector, Brass Floor Flange, Bolts, and Rubber Gasket.

Fig. 1202. Embossed Closet, complete as described,	- - - - -	\$52.00
Fig. 1203. Plain Closet, complete as described,	- - - - -	50.00
If without Nickel-plated Ornamental Brass Tank Cover, deduct	- - - - -	4.00

These Closets will work successfully on any pressure over 20 pounds.

CLOW'S AUTOMATIC ENAMELED IRON SIPHON JET CLOSETS.

MADDEN'S PATENT.

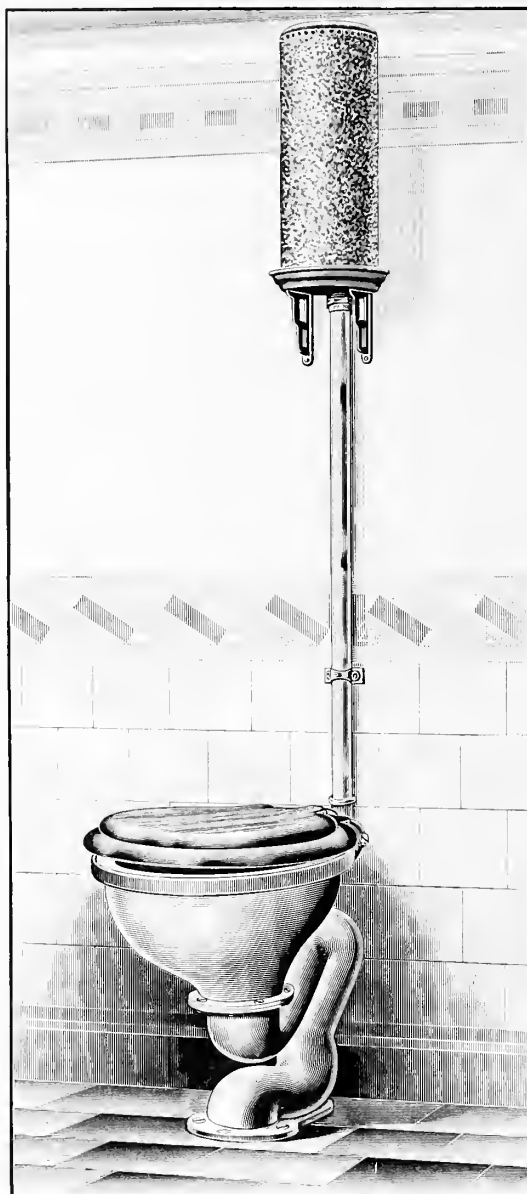


FIG. 1204.

Includes Iron Siphon Jet Closet, Enamelled all over, with Automatic Valve, Seat and Lid hinged to Bowl, Galvanized Iron Closed Tank, Nickel-plated Brackets, and Flush Pipe with Protector.

Complete as described,	\$40.00
If with Nickel-plated Ornamental Brass Tank Cover, add	4.00

Without any exception this is the best Water Closet made for use in Factories, Stores, Saloons, or where the fixture is liable to receive hard usage.

These Closets will work successfully on any pressure over 20 pounds.

CLOW'S AUTOMATIC HOPPER CLOSETS.

(MADDEN'S PATENT.)



FIG. 1205.



FIG. 1206.

Includes Oval Combined Hopper and Trap, with Automatic Valve, Seat and Lid attached to Bowl, Galvanized Iron Closed Tank incased in Nickel-plated Ornamental Brass Cover, Nickel-plated Brackets, and Flush Pipe with Protector, Brass Floor Flange, Bolts, and Gasket.

Fig. 1205. Embossed Closet, complete as described,	-	-	-	-	-	-	-	-	-	-	\$42.00
Fig. 1206. Plain Closet, complete as described,	-	-	-	-	-	-	-	-	-	-	40.00
If without Nickel-plated Ornamental Brass Tank Cover, deduct	-	-	-	-	-	-	-	-	-	-	4.00

These Closets will work successfully on any pressure over 20 pounds.

CLOW'S AUTOMATIC HOPPER CLOSETS.

(MADDEN'S PATENT.)



FIG. 1209.



FIG. 1210.

Includes Iron Flushing Rim Hopper, Enameled Inside and Outside, as listed, Automatic Valve and Seat attached to Bowl, Galvanized Iron Closed Tank, Nickel-plated Brackets, and Flush Pipe with Protector.

Fig. 1209. Complete as described, with Trap and Brass Vent Coupling on Hand Hole,	-	-	-	-	-	-	-	-	-	\$27.00
Fig. 1210. Complete as described, with Long Oval Hopper,	-	-	-	-	-	-	-	-	-	25.00
If with Nickel-plated Ornamental Brass Tank Cover, add	-	-	-	-	-	-	-	-	-	4.00

For roughing-in allow 13 inches from wall to center of outlet.

CLOW'S AUTOMATIC FROST-PROOF HOPPER CLOSETS.

(MADDEN'S PATENT.)

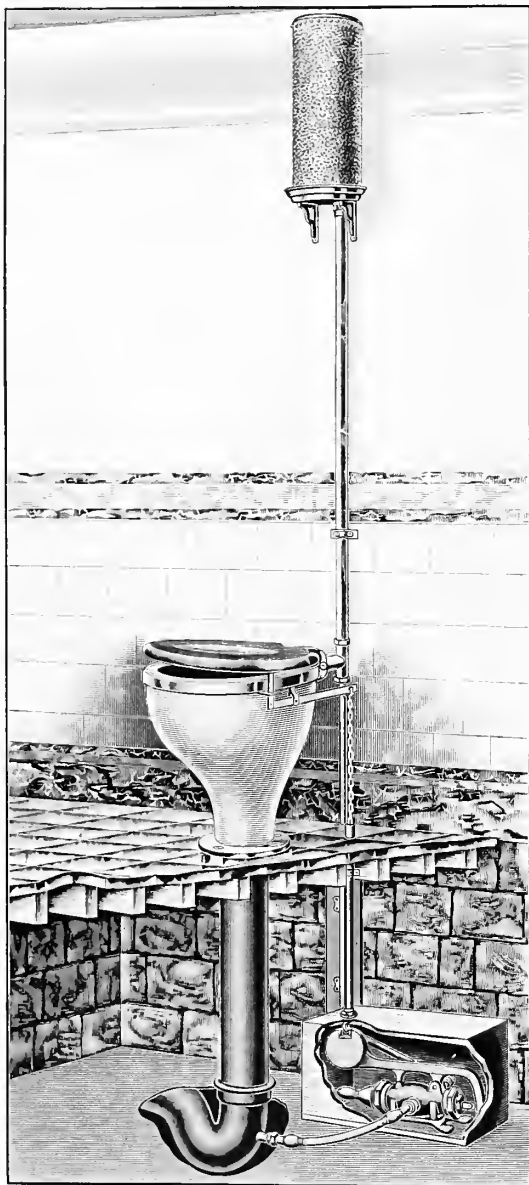


FIG. 1211.

Fig. 1211 includes Long Oval Iron Flushing Rim Hopper, Enameled Inside and Outside, Automatic Valve and Seat attached to Bowl, Galvanized Iron Closed Tank, Nickel-plated Brackets, and Flush Pipe with Protector, and Frost-proof Valve.

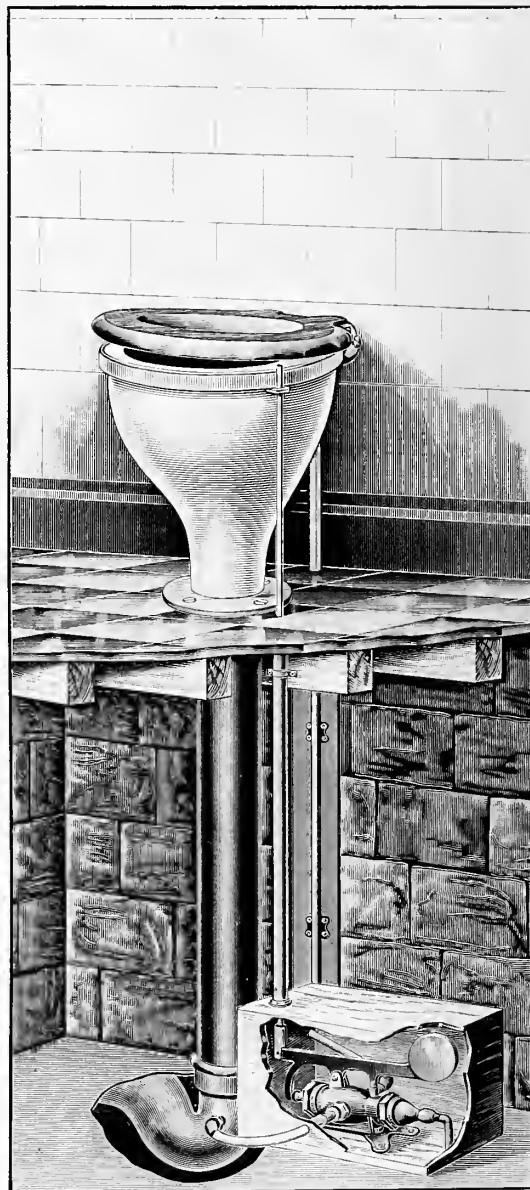


FIG. 1212.

Fig. 1212 includes Long Oval Iron Flushing Rim Hopper, Enameled Inside and Outside, Seat attached to Bowl, and Frost-proof Valve.

Fig. 1211. Complete as described,	\$29.00
Fig. 1212. Complete as described,	20.00

These Closets will work successfully on any pressure over 20 pounds.

CLOW'S SIPHON JET RANGE CLOSETS.

(MADDEN'S PATENT.)



FIG. 1213.

Includes Five-section Range Closet, with Slate Partitions on Nickel-plated Brass Legs, Slate Floor Slab, Iron Siphon Jet Closet Section, Two Center Sections, and Two End Sections. Each opening having Flushing Rim. Seat attached to Bowl, Automatic Siphon Tank, Nickel-plated Brackets, Brass Flush and Supply Pipes, and Adjustable Standards.

Dimensions: Height of Closet, 16 inches; height to top of partition, 5 feet 6 inches; depth, 24 inches; distance center to center, 24 inches.

	Without Partitions.	With Slate Partitions, complete as shown.	With Marble Partitions, complete.
Fig. 1213. Sections Painted, - - - - -	\$135.00	\$260.00	\$335.00
Add for each additional Section, or deduct for each Section not required, - - - - -	23.00	48.00	63.00
Fig. 1213. Sections Enameled Inside and Painted Outside, - - - - -	175.00	300.00	375.00
Add for each additional Section, or deduct for each Section not required, - - - - -	31.00	56.00	71.00
Fig. 1213. Sections Enameled Inside and Outside, - - - - -	225.00	350.00	425.00
Add for each additional Section, or deduct for each Section not required, - - - - -	41.00	66.00	81.00

CLOW'S ROYAL PLUNGER CLOSETS.

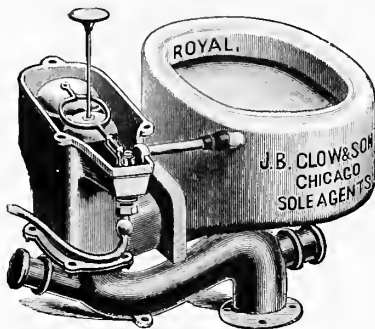


FIG. 1214. WITH TRAP.

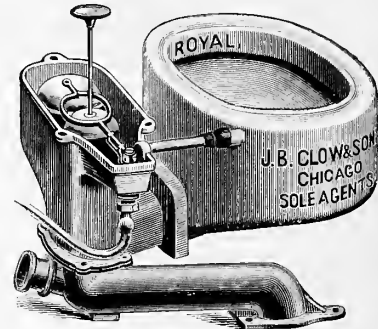


FIG. 1215. WITH OFFSET.

Figs. 1214 and 1215, each, - - - - - \$12.00

This Closet can be furnished with Straight Outlet when desired at same price.

CLOW'S CISTERN AND VALVE CLOSETS.

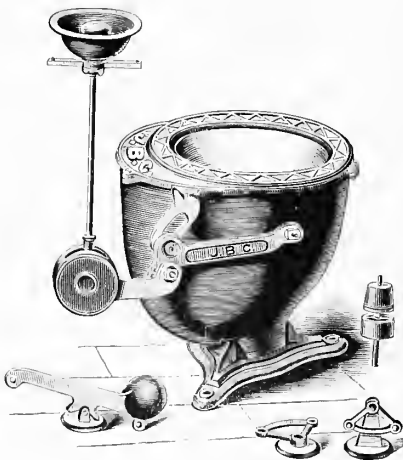


FIG. 1216.

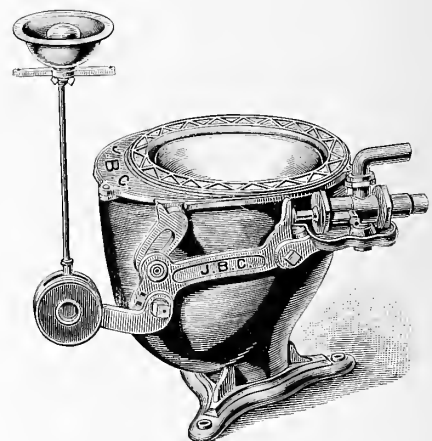


FIG. 1217.

Figs. 1216 and 1217, each, - - - - - \$5.00

CLOW'S ENAMELED IRON HOPPER CLOSETS.



FIG. 1218.

STRAIGHT, WITH ROUND SELF-RAISING SEAT.



FIG. 1219.

STRAIGHT, WITH SQUARE SELF-RAISING SEAT.

Figs. 1218 and 1219. White Enameled inside, each, - - - - - \$9.00



FIG. 1220.

WITH TRAP AND ROUND SELF-RAISING SEAT.

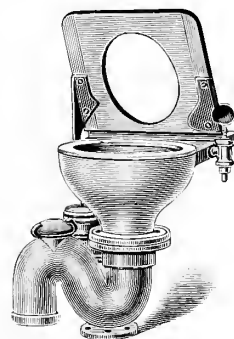


FIG. 1221.

WITH TRAP AND SQUARE SELF-RAISING SEAT.

Figs. 1220 and 1221. White Enameled inside, each, - - - - - \$10.00

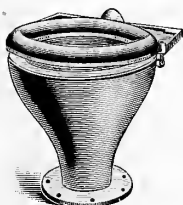


FIG. 1222. STRAIGHT FLUSHING RIM, WITH SEAT BALANCED TO SELF-RAISE.

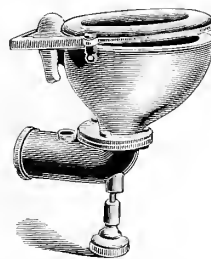


FIG. 1223. ON ENAMELED ELBOW, WITH FLUSHING RIM AND SEAT BALANCED TO SELF-RAISE, ELBOW TAPPED FOR WASTE FROM BASIN.

Fig. 1222. White Enameled inside, each, - - - - - \$12.00
 Fig. 1223. White Enameled inside, each, - - - - - 15.00

Figs. 1222 and 1223 are especially adapted for prisons, hospitals, and other public buildings.

Fig. 1223 can be furnished with Trap instead of Elbow at an extra cost of \$1.00 each.

CLOW'S ENAMELED IRON HOPPERS.



FIG. 1224.
LONG OVAL FLUSHING RIM.



FIG. 1225.
SHORT OVAL FLUSHING RIM, WITH S TRAP.

FIGURE		1224	1225
ENAMELED INSIDE AND PAINTED OUTSIDE (TRAP PAINTED INSIDE AND OUTSIDE)	EACH	4.50	6.00
ENAMELED INSIDE AND OUTSIDE	EACH	5.50	8.50

Add for Hardwood Rim on Figs. 1224 and 1225, \$1.50.



FIG. 1226.
PHILADELPHIA PATTERN.

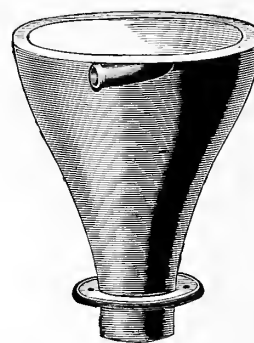


FIG. 1227.
NEW PATTERN.

ENAMELED IRON HOPPERS.

FIGURE		1226	1227
ENAMELED INSIDE	EACH	1.50	2.00

CLOW'S AUTOMATIC SIPHON JET URINALS.

(MADDEN'S PATENT.)

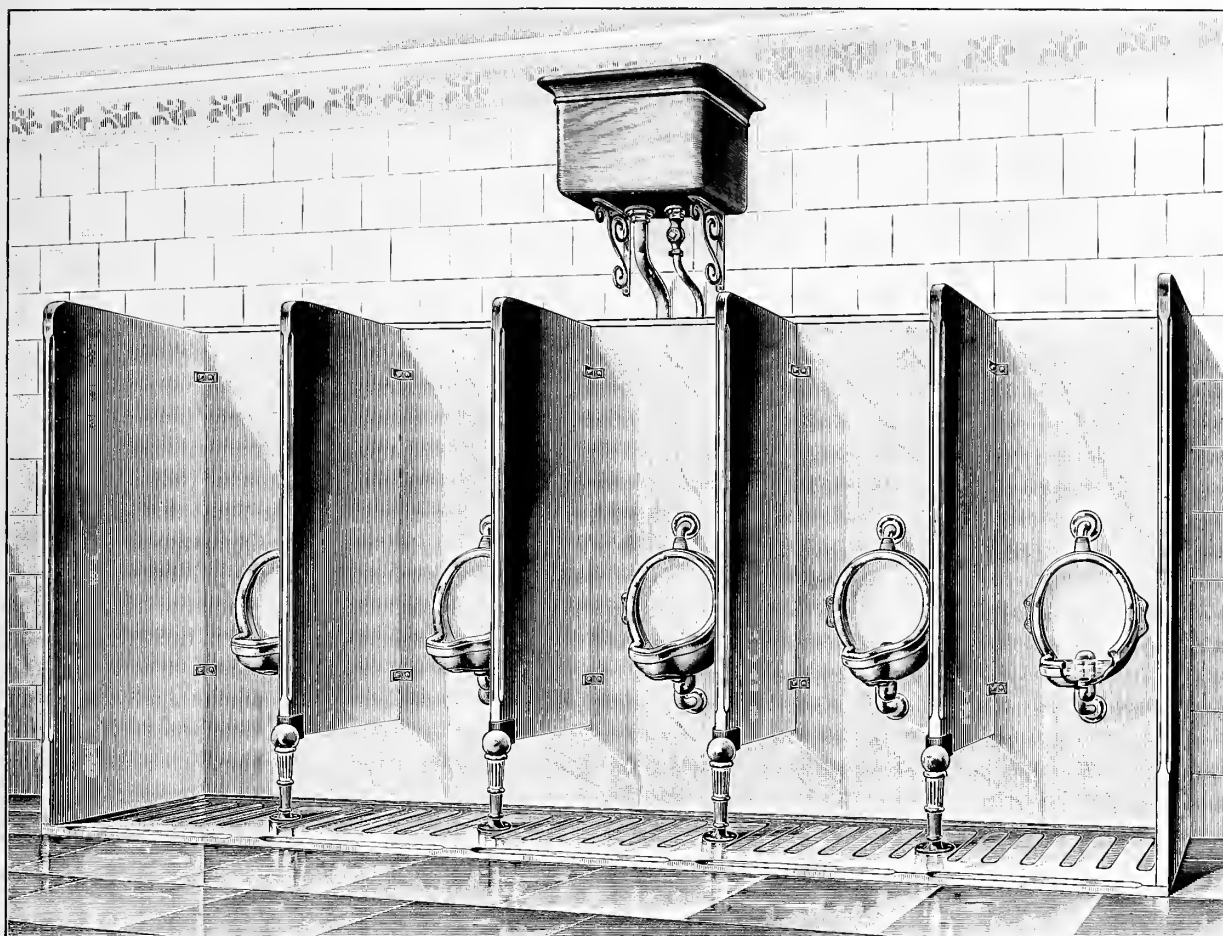


FIG. 1228.

Includes Siphon Jet Earthenware Lipped Urinals, Round Cornered Cherry or Oak Copper-lined Automatic Flushing Tank, with Nickel-plated Brass Brackets, Flush and Supply Pipes, with Compression Lock Key Cock above Marble, Italian Marble Stalls, with Countersunk Base, Partitions, and Ends, Polished both Sides, Nickel-plated Brass Legs, Clamps, Inlet and Outlet Connections.

Dimensions of Stalls: Height, 5 feet; width, 2 feet; depth, Ends, 2 feet, Partitions, 1 foot 8 inches; thickness, Ends, Partitions, and Back, $\frac{3}{4}$ inch; Base, $1\frac{1}{2}$ inches.

Number of Stalls,	-	-	1	2	3	4	5	6	7	8	9	10
Capacity of Tank,	Gallons		1	2	3	4	5	6	7	8	9	10
With Italian Marble Stalls and Fixtures, complete as shown,			\$110.00	\$170.00	\$240.00	\$310.00	\$380.00	\$450.00	\$520.00	\$590.00	\$660.00	\$730.00
With Tennessee Marble Stalls and Fixtures, complete,			120.00	190.00	270.00	350.00	430.00	510.00	590.00	670.00	750.00	830.00
With Slate Stalls and Fixtures, complete,			95.00	140.00	195.00	250.00	305.00	360.00	415.00	470.00	525.00	580.00

Our Siphon Jet Urinal Stalls are fitted complete with Supply and Waste Pipes of Galvanized Iron back of Marble and Nickel-plated Brass Supply and Flush Pipes above Marble. Every Stall is set up complete and tested before shipping. The Urinals contain sufficient water to prevent any odor, and the strong Automatic Flush and Siphon Jet carry away any substance that may be thrown in the Urinal.

We recommend this Urinal as being very much superior to any other pattern.

CLOW'S URINAL STALLS.

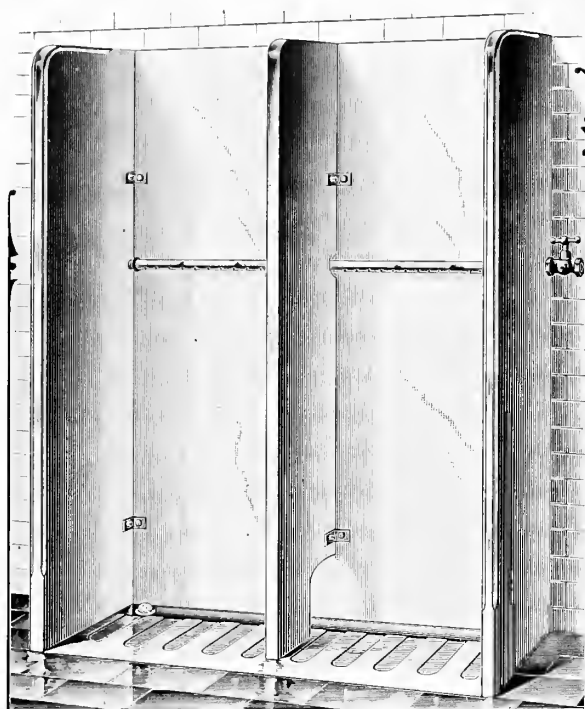


FIG. 1229.



FIG. 1230.

Fig. 1229 includes Italian Marble Urinal Stalls, Partitions and Ends Polished Both Sides, Back Polished on One Side, Base Countersunk and Grooved, Nickel-plated Brass Perforated Flush Pipe, Lock Key Cock, Clamps, Bolts, and Raised Strainer.

Fig. 1230, same as Fig. 1229, with Italian Marble Splash-board, as shown.

Dimensions of Urinal Stalls: Height, 5 feet; width, center to center, 2 feet; depth, Ends, 2 feet; Partitions, 1 foot 8 inches; thickness, Ends, Partitions, and Backs, $\frac{1}{4}$ inch; Base, $1\frac{1}{2}$ inch.

Fig. 1229. Number of Stalls, -	1	2	3	4	5	6	7	8	9	10
Italian Marble, complete as shown, -	\$63.00	\$ 99.00	\$135.00	\$171.00	\$207.00	\$243.00	\$279.00	\$315.00	\$351.00	\$387.00
Tennessee Marble, complete, -	73.00	119.00	165.00	211.00	257.00	303.00	349.00	399.00	440.00	487.00
Slate, complete, -	36.00	63.00	90.00	117.00	144.00	171.00	198.00	225.00	252.00	279.00

Fig. 1230. Number of Stalls, -	1	2	3	4	5	6	7	8	9	10
Italian Marble, complete as shown, -	\$71.00	\$115.00	\$159.00	\$203.00	\$247.00	\$291.00	\$335.00	\$379.00	\$423.00	\$467.00
Tennessee Marble, complete, -	83.00	139.00	195.00	251.00	307.00	363.00	419.00	479.00	530.00	587.00
Slate, complete, -	41.00	73.00	105.00	137.00	169.00	201.00	233.00	265.00	297.00	329.00

If with Nickel-plated Brass Legs, as shown on pages 313 and 314, add \$2.00 per Stall.

If with Nickel-plated Top Railing, as shown on Fig. 1231, add for each Stall \$6.00.

If with Nickel-plated Fancy Top Railing, as shown on Fig. 1232, add for each Stall \$8.00.

All our Urinal Stalls are set up and carefully examined before shipping.

CLOW'S URINAL STALLS.

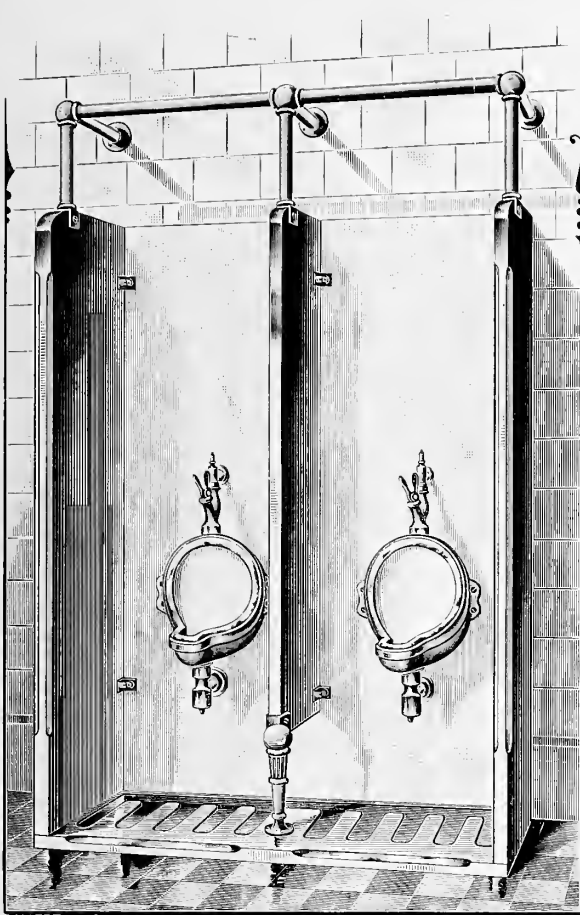


FIG. 1231.

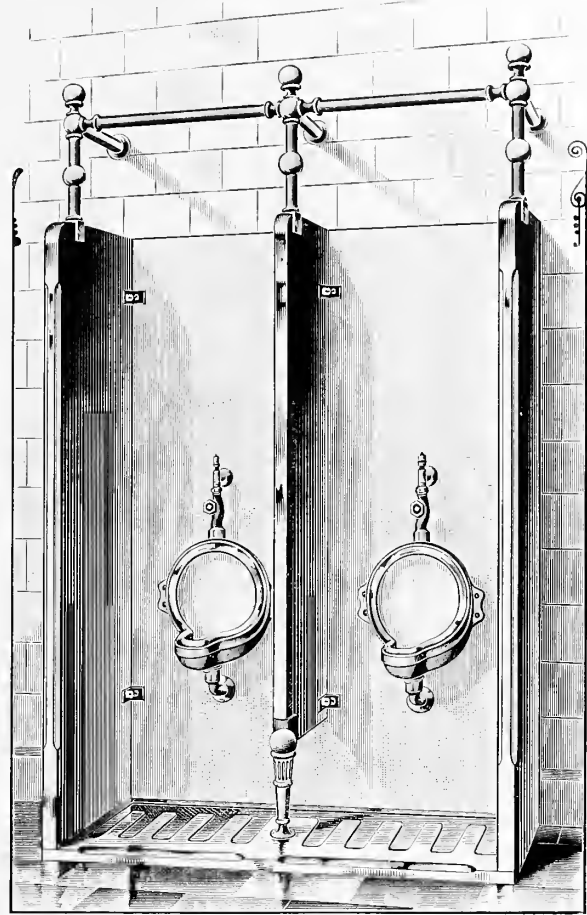


FIG. 1232.

Fig. 1231 includes Italian Marble Urinal Stalls, Partition and Ends Polished Both Sides, Back Polished on One Side, Base Countersunk and Grooved, Nickel-plated Brass Top Rail, Flat Lipped Earthenware Urinals, Nickel-plated Doherty Self-closing Urinal Cock and Urinal Trap, Clamps and Bolts, Partition Supported on Nickel-plated Brass Leg.

Fig. 1232 includes Italian Marble Urinal Stalls, Partition and Ends Polished Both Sides, Back Polished on One Side, Base Countersunk and Grooved, Nickel-plated Fancy Top Rail, Flat Lipped Earthenware Urinals, Nickel-plated Lock Key Urinal Cock, Outlet Connection, Clamps and Bolts, Partition supported on Nickel-plated Brass Leg.

Fig. 1231. Number of Stalls, -	1	2	3	4	5	6	7	8	9	10
Italian Marble, complete as shown, -	\$87.00	\$142.00	\$197.00	\$252.00	\$307.00	\$362.00	\$417.00	\$472.00	\$527.00	\$582.00
Tennessee Marble, complete, -	97.00	162.00	227.00	292.00	357.00	422.00	487.00	552.00	617.00	682.00
Slate, complete, -	60.00	106.00	152.00	198.00	244.00	290.00	336.00	382.00	428.00	474.00
Deduct, if without Top Railing, -	11.00	17.00	23.00	29.00	35.00	41.00	47.00	53.00	59.00	65.00

Fig. 1232. Number of Stalls, -	1	2	3	4	5	6	7	8	9	10
Italian Marble, complete as shown, -	\$89.00	\$144.00	\$199.00	\$254.00	\$309.00	\$364.00	\$419.00	\$474.00	\$529.00	\$584.00
Tennessee Marble, complete, -	99.00	164.00	229.00	294.00	359.00	424.00	489.00	554.00	619.00	684.00
Slate, complete, -	62.00	108.00	154.00	200.00	246.00	292.00	338.00	384.00	430.00	476.00
Deduct, if without Top Railing, -	15.00	23.00	31.00	39.00	47.00	55.00	63.00	71.00	79.00	87.00

Fig. 1231, fitted with Outlet Connection, as shown in Fig. 1232, deduct \$2.00 per Stall.

Fig. 1232, fitted with Urinal Trap, as shown in Fig. 1231, add \$2.00 per Stall.

If desired, Fig. 1231 will be fitted with Lock Key Cock, or Fig. 1232 with Self-closing Cock, without any extra charge.

CLOW'S URINAL STALLS.

WITH AUTOMATIC FLUSHING TANKS.



FIG. 1233.

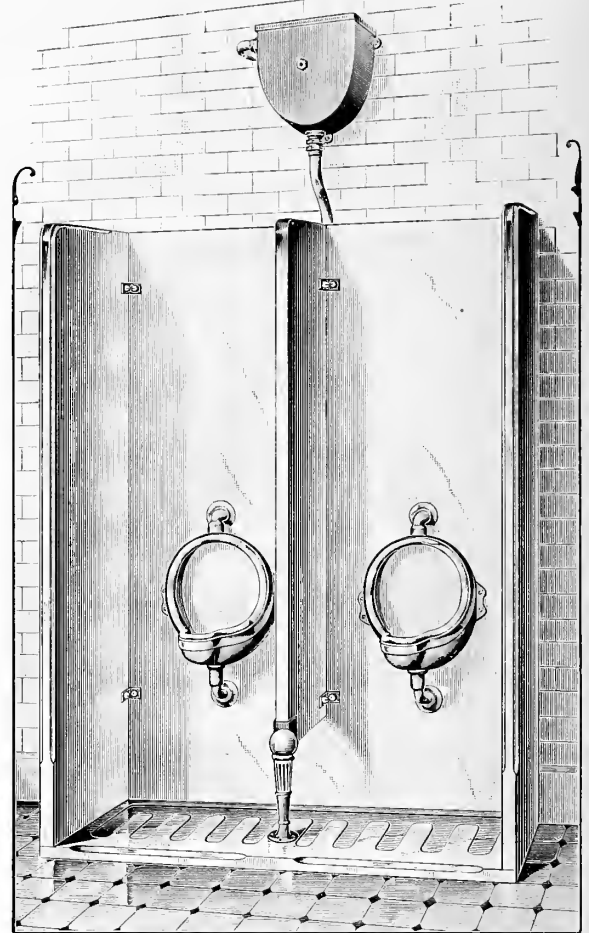


FIG. 1234.

Fig. 1233 includes Italian Marble Urinal Stalls, Partition and Ends Polished Both Sides, Back Polished on One Side, Base Countersunk and Grooved, Automatic Copper-lined Flushing Tank, with Regulating Valve, Nickel-plated Brass Brackets, Supply and Flush Pipes extending below Marble, Flat Lipped Earthenware Urinals, Nickel-plated Inlet Connection, Urinal Trap, and Clamps and Bolts. Partition supported on Nickel-plated Brass Leg.

Fig. 1234, same as Fig. 1233, with Iron Automatic Tilting Tank, with Regulating Valve, Nickel-plated Flush Pipe extending below Marble, and Nickel-plated Inlet and Outlet Connections.

Dimensions of Urinal Stalls: Height, 5 feet; width, center to center, 2 feet; depth, Ends, 2 feet, Partitions, 1 foot 8 inches; thickness, Ends, Partitions, and Backs, $\frac{1}{2}$ inch; Base, $1\frac{1}{2}$ inches.

Fig. 1233. Number of Stalls, -	1	2	3	4	5	6	7	8	9	10
Capacity of Tank, - Gallons	1	2	3	4	5	6	7	8	9	10
Italian Marble, complete as shown, -	\$86.00	\$137.00	\$188.00	\$239.00	\$288.00	\$337.00	\$387.00	\$435.00	\$485.00	\$533.00
Tennessee Marble, complete, -	96.00	157.00	218.00	279.00	338.00	397.00	457.00	515.00	575.00	633.00
Slate, complete, -	59.00	101.00	143.00	185.00	225.00	265.00	306.00	345.00	386.00	425.00
Fig. 1234. Number of Stalls, -	1	2	3	4	5	6	7	8	9	10
Italian Marble, complete as shown, -	\$84.00	\$130.00	\$181.00	\$229.00	\$274.00	\$319.00	\$370.00	\$415.00	\$460.00	\$506.00
Tennessee Marble, complete, -	94.00	150.00	211.00	269.00	324.00	379.00	440.00	495.00	550.00	606.00
Slate, complete, -	57.00	94.00	136.00	175.00	211.00	247.00	289.00	325.00	361.00	398.00

Fig. 1233, with Nickel-plated Outlet Connection, as shown in Fig. 1234, deduct \$2.00 each Stall.

Fig. 1234, with Nickel-plated Urinal Trap, as shown in Fig. 1233, add \$2.00 each Stall.

Figs. 1233 or 1234, with Nickel-plated Top Railing, as shown in Fig. 1231, add for each Stall \$6.00.

Figs. 1233 or 1234, with Nickel-plated Fancy Top Railing, as shown in Fig. 1232, add for each Stall \$8.00.

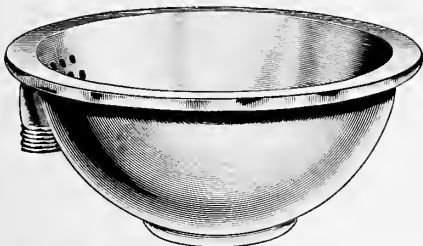
EARTHENWARE.

FIG. 1235. COMMON OVERFLOW BASIN, FOR METAL PLUG.



FIG. 1236. PATENT OVERFLOW BASIN, FOR METAL PLUG.

ROUND BASINS.—Figs. 1235 and 1236.

OUTSIDE DIAMETER INCHES	12	13	14	15	16
FIG. 1235. COMMON OVERFLOW EACH	1.05	1.25	1.40	2.00	2.75
FIG. 1236. PATENT OVERFLOW EACH	1.15	1.30	1.50	2.25	3.00
NUMBER IN CRATE	---	---	48	---	---



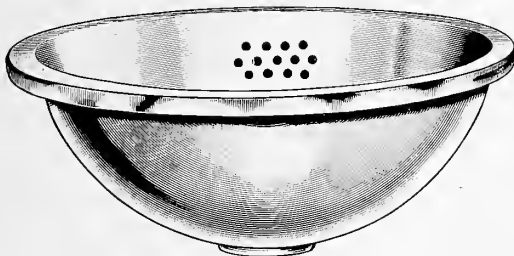
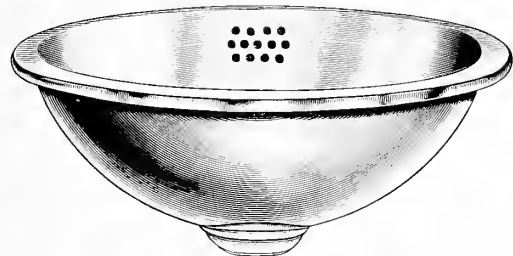
FIG. 1237. PATENT OVERFLOW BASIN, FOR RUBBER PLUG.



FIG. 1238. BASIN, WITHOUT OVERFLOW, FOR METAL PLUG.

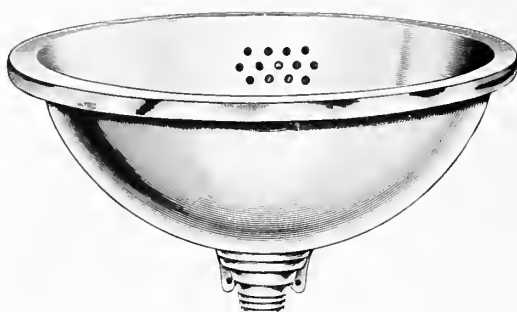
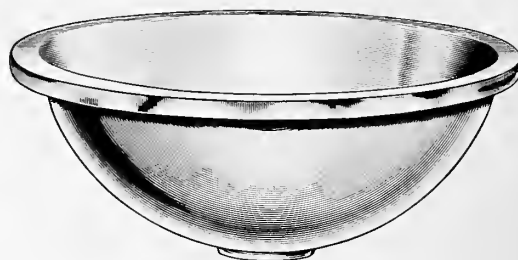
ROUND BASINS.—Figs. 1237 and 1238.

OUTSIDE DIAMETER INCHES	12	13	14	15	16
FIG. 1237. PATENT OVERFLOW EACH	1.40	1.55	1.70	2.50	3.50
FIG. 1238. WITHOUT OVERFLOW EACH	.80	1.00	1.15	1.80	2.25

FIG. 1239. COMMON OVERFLOW OVAL BASIN,
FOR METAL PLUG.FIG. 1240. PATENT OVERFLOW OVAL BASIN,
FOR METAL PLUG.**OVAL BASINS.—Figs. 1239 and 1240.**

OUTSIDE DIAMETER INCHES	14 x 17	15 x 19
FIG. 1239. COMMON OVERFLOW EACH	3.50	5.00
FIG. 1240. PATENT OVERFLOW EACH	3.80	5.30
NUMBER IN CRATE	48	48

Approximate weight of Crate, 650 pounds.

FIG. 1241. PATENT OVERFLOW OVAL BASIN,
FOR RUBBER PLUG.FIG. 1242. NO OVERFLOW OVAL BASIN,
FOR METAL PLUG.**OVAL BASINS.—Figs. 1241 and 1242.**

OUTSIDE DIAMETER	INCHES	14 x 17	15 x 19
FIG. 1241. PATENT OVERFLOW	EACH	4.25	5.75
FIG. 1242. WITHOUT OVERFLOW	EACH	3.50	5.00
NUMBER IN CRATE		48	48

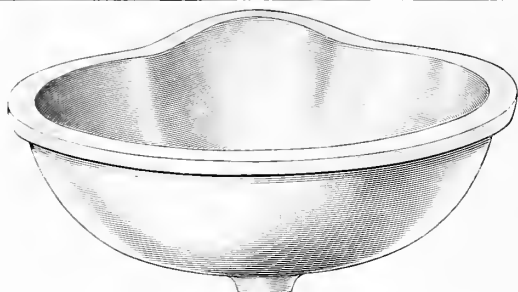


FIG. 1243. PLAIN RECESS BASIN.

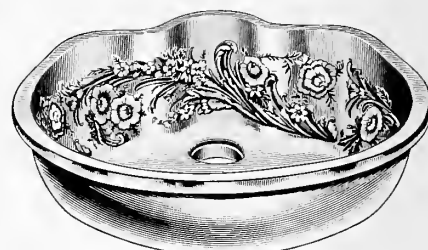


FIG. 1244. PLAIN DECORATED RECESS BASIN.

RECESS BASINS.—Figs. 1243 and 1244.

OUTSIDE DIAMETER	INCHES	14 x 17	15 x 19	14 x 14
FIG. 1243. PLAIN RECESS	EACH	7.00	8.50	---
FIG. 1244. PLAIN DECORATED RECESS	EACH	---	---	12.00

Fig. 1244 Recess Basin is carried in stock, with a handsome decoration as shown, in Brown Tint underglazed.



FIG. 1245. EMBOSSED OVAL BASIN.



FIG. 1246. EMBOSSED RECESS BASIN.

EMBOSSED OVAL AND RECESS BASINS.—Figs. 1245 and 1246.

OUTSIDE DIAMETER	INCHES	14 x 17	15 x 19
FIG. 1245. EMBOSSED, WITHOUT OVERFLOW	EACH	4.50	6.00
FIG. 1245. EMBOSSED, PATENT OVERFLOW, METAL PLUG	EACH	4.80	6.30
FIG. 1246. EMBOSSED RECESS BASIN	EACH	8.00	9.50

Approximate weight of Crate, 650 pounds.

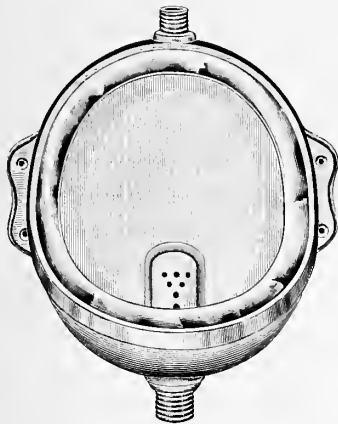


FIG. 1247.
FLAT BACK URINAL.

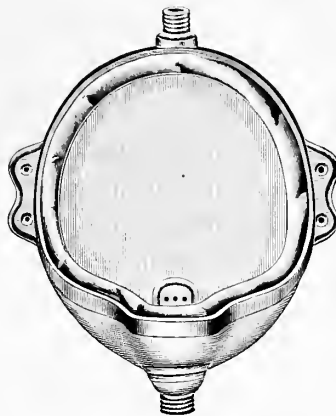


FIG. 1248.
FLAT BACK LIPPED URINAL.

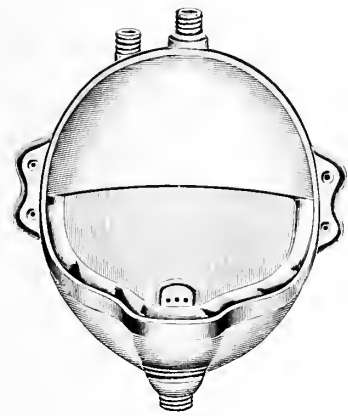


FIG. 1249. FLAT BACK LIPPED URINAL,
WITH HOOD AND VENT.

FLAT BACK URINALS.—Figs. 1247, 1248, and 1249.

NUMBER		1	2	3
SIZE	INCHES	15 x 18	13 x 15	12 x 14
FIG. 1247	EACH	9.30	7.10	6.70
FIG. 1248	EACH	13.50	11.25	10.70
FIG. 1249	EACH	17.45	13.90	---
NUMBER IN CRATE		12	24	---

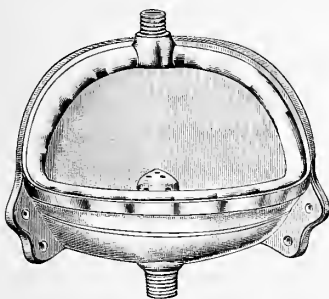


FIG. 1250.
CORNER URINAL.

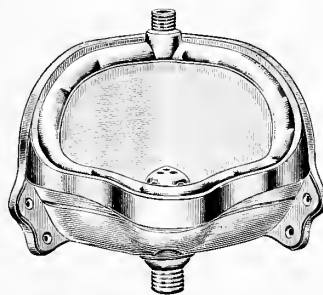


FIG. 1251.
CORNER LIPPED URINAL.

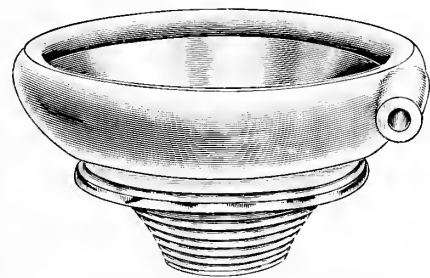


FIG. 1252.
FRENCH CLOSET BOWL.

CORNER URINALS.—Figs. 1250 and 1251.

NUMBER		1	2	3
SIZE	INCHES	13 x 13	11½ x 11½	10½ x 10½
FIG. 1250	EACH	9.30	7.10	6.70
FIG. 1251	EACH	13.50	11.25	10.70

FRENCH CLOSET BOWLS.—Fig. 1252.

FIGURE	1252
EACH	1.45

Approximate weight of Crate, 650 pounds.

EARTHENWARE.



FIG. 1253. No. 2, EMBOSSED PEDESTAL WASHOUT.



FIG. 1254. No. 3, EMBOSSED PEDESTAL WASHOUT.

EMBOSSED PEDESTAL WASHOUTS.—Figs. 1253 and 1254.

NUMBER		2	3
FIG. 1253	EACH	26.30	----
FIG. 1254	EACH	----	24.35
NUMBER IN CRATE		12	12



FIG. 1255. No. 2, EMBOSSED FRONT WASHOUT.



FIG. 1256. No. 3, EMBOSSED FRONT WASHOUT.

EMBOSSED FRONT WASHOUTS.—Figs. 1255 and 1256.

NUMBER		2	3
FIG. 1255	EACH	23.70	----
FIG. 1256	EACH	----	21.05
NUMBER IN CRATE		12	12

Approximate weight of Crate, 650 pounds.

EARTHENWARE.

FIG. 1257. EMBOSSED BACK WASHOUT.



FIG. 1258. PLAIN PEDESTAL WASHOUT.

WASHOUTS.—Figs. 1257 and 1258.

NUMBER		1	2	3
FIG. 1257	EACH	26.30	23.70	21.05
FIG. 1258	EACH	26.30	23.70	21.70
NUMBER IN CRATE			12	12



FIG. 1259. EMBOSSED COMBINED HOPPER AND TRAP.



FIG. 1260. PLAIN COMBINED HOPPER AND TRAP.

COMBINED HOPPERS AND TRAPS.—Figs. 1259 and 1260.

FIGURE	1259	1260
EACH	17.10	14.45
NUMBER IN CRATE	12	12

Combined Hoppers and Traps will always be furnished with Vent at back, as shown, unless Right or Left Vent is specified.
Approximate weight of Crate, 650 pounds.

EARTHENWARE.

FIG. 1261. PLAIN FRONT WASHOUT.



FIG. 1262. PLAIN BACK WASHOUT.

PLAIN FRONT AND BACK OUTLET WASHOUTS.—Figs. 1261 and 1262.

NUMBER	1	2	3
FIGS. 1261 AND 1262	22.35	21.05	18.40
NUMBER IN CRATE	-----	12	12



FIG. 1263 PLAIN FRONT OFFSET WASHOUT.



FIG. 1264. PLAIN BACK OFFSET WASHOUT.

PLAIN FRONT AND BACK OFFSET WASHOUTS.—Figs. 1263 and 1264.

NUMBER	1	2	3
FIGS. 1263 AND 1264	22.35	21.05	18.40
NUMBER IN CRATE	-----	12	12

Approximate weight of Crate, 650 pounds.

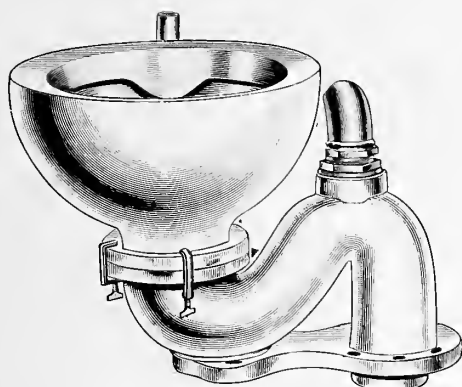
EARTHENWARE.

FIG. 1265. OVAL SHORT HOPPER AND TRAP.

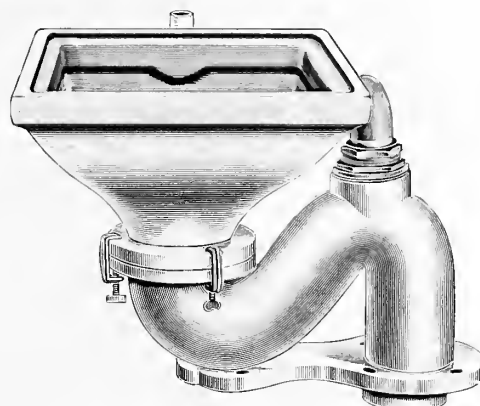


FIG. 1266. SQUARE SHORT HOPPER AND TRAP.

OVAL AND SQUARE SHORT HOPPERS AND TRAPS.—Figs. 1265 and 1266.

FIGURE	1265	1266
EACH	9.60	13.15
NUMBER IN CRATE	16	16

FIG. 1267.
OVAL TALL FLUSH RIM HOPPER.FIG. 1268. ROUND TALL FLUSH RIM
PHILADELPHIA HOPPER.FIG. 1269.
PHILADELPHIA HOPPER.**HOPPERS.—Figs. 1267, 1268, and 1269.**

FIGURE	1267	1268	1269
EACH	10.50	7.25	3.25
NUMBER IN CRATE	16	20	20

METAL CONNECTIONS EXTRA.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
STRAIGHT COUPLINGS COMPLETE	EACH	.30	.35	.45	.60
BENT COUPLINGS COMPLETE	EACH	.35	.40	.50	.65
SPUDS ONLY	EACH	.20	.20	.35	.35
HOPPER CLAMPS	EACH	.07	----	----	----

When Earthenware is ordered in Crate Lots from Trenton. Packages will be charged as follows: Crates, \$2.00; Hogsheds, extra large, \$2.00; large, \$1.50; medium, \$1.25; small, \$1.00.

CAR EARTHENWARE.



FIG. 1270. HOPPER, AMERICAN PATTERN.



FIG. 1271. HOPPER, PULLMAN PATTERN.

HOPPERS.—Figs. 1270 and 1271.

FIG. 1270. AMERICAN PATTERN
FIG. 1271. PULLMAN PATTERN

EACH 10.60
EACH 13.00

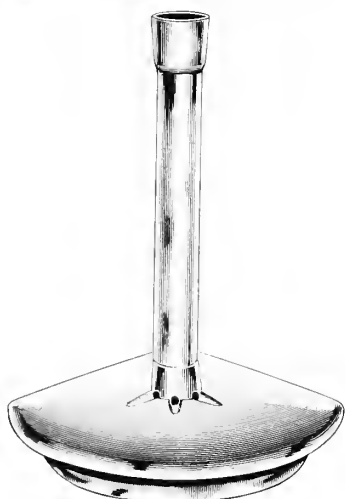


FIG. 1272. DRIP PIPE AND PAN.



FIG. 1273. CAP, TAB, AND VENT URINAL.



FIG. 1274. PLAIN URINAL.

DRIP PIPES AND PANS.—Fig. 1272.

LENGTH OF PIPES INCHES	9	16	16½	17	18	20
PER DOZEN	21.00	31.60	31.60	31.60	31.60	31.60
DRIP PANS, SIZE 12 x 12 INCHES . . PER DOZEN	-----	-----	-----	-----	-----	62.00

URINALS.—Figs. 1273 and 1274.

FIGURE	1273	1274
EACH	9.00	6.00

CLOSET TANKS AND SEATS.

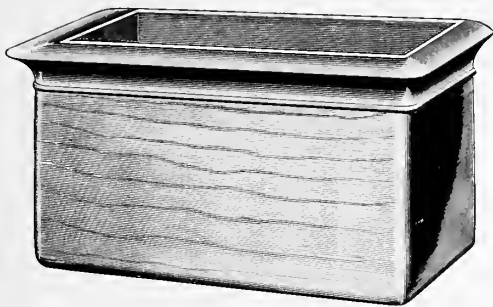


FIG. 1275. CLOW SIPHON TANK, ROUND CORNERS, WITH MOULDING.

Size, 17 x 8 x 10 inches.

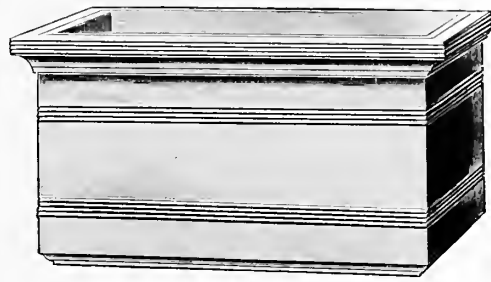


FIG. 1276. CLOW SIPHON TANK, DADO, WITH MOULDING.

Size, 17 x 8 x 10 inches.

- Fig. 1275. Finished in Natural Oak or Cherry, Highly Polished, Nickel-plated Brass Trimmings and Brackets, Chain, and Pull, complete, each, - - - - - \$8.00
- Fig. 1276. Finished in Natural Oak, Antique Oak, and Natural Cherry. Nickel-plated Brackets, Chain, and Pull, complete, each. - - - - - 6.25

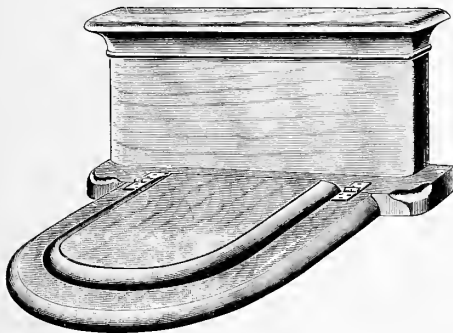


FIG. 1277. SEAT, WITH COVER AND ROUND CORNER BACK, WITH MOULDING.

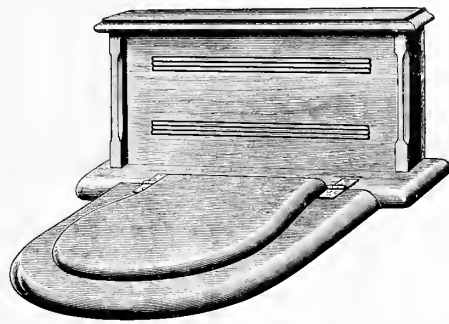


FIG. 1278. SEAT, WITH COVER AND DADO BACK, WITH MOULDING.

- Fig. 1277. Finished in Natural Oak or Cherry, Highly Polished, Nickel-plated Patent Hinges, each, - - - - - \$5.00
- Fig. 1278. Finished in Natural Oak, Antique Oak, and Natural Cherry, Nickel-plated Patent Hinges, each. - - - - - 4.00

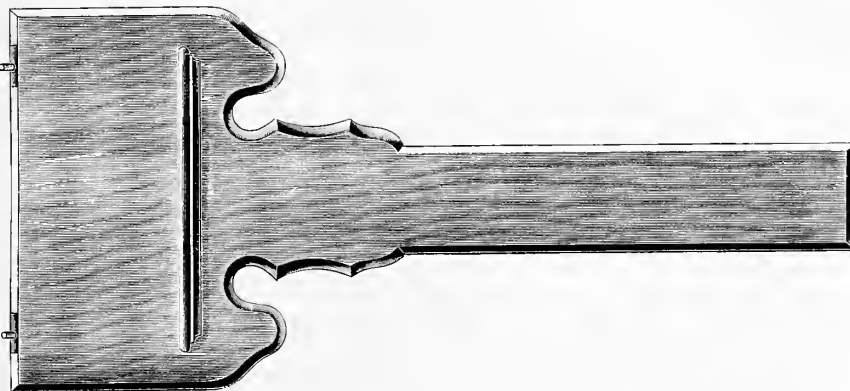


FIG. 1279. TANK BOARD.

- Finished in Natural Oak, Antique Oak, and Natural Cherry, small size, each, - - - - - \$2.50
- Same, large size, each, - - - - - 3.00

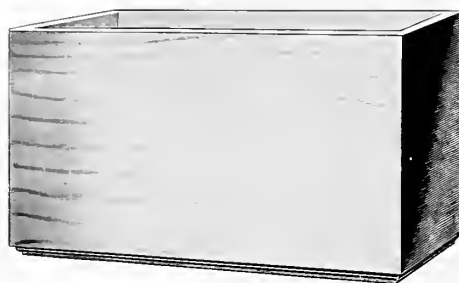


FIG. 1280. LAKESIDE TANK.

Size, 17 x 8 x 10 inches.

Hardwood Finished, Nickel-plated Brackets, Chain, and Pull, each.

\$5.25

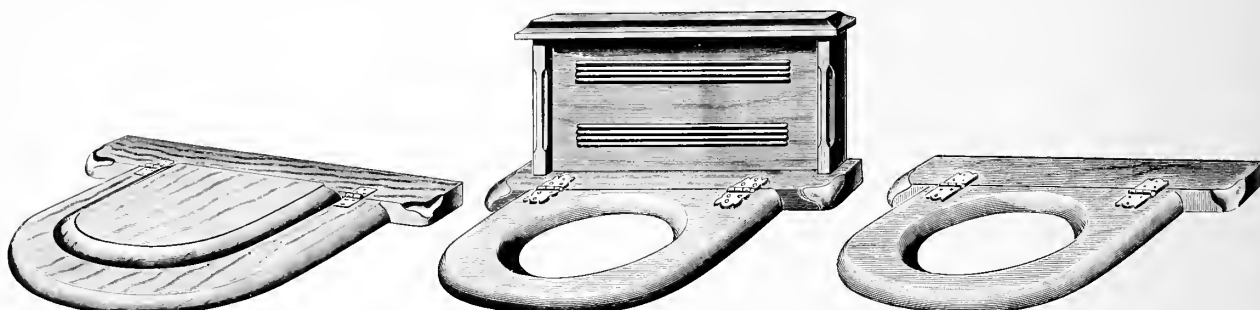
FIG. 1281.
SEAT WITH COVER, NO BACK.FIG. 1282. SEAT WITHOUT COVER,
AND WITH DADO BACK.FIG. 1283.
SEAT, NO COVER OR BACK.

Fig. 1281. Finished in Natural Oak or Cherry, each.

\$3.50

Fig. 1282. Finished in Natural Oak or Cherry, each.

3.50

Fig. 1283. Finished in Natural Oak, each.

2.50

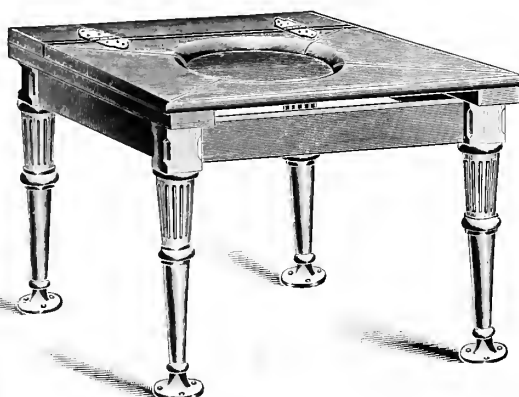


FIG. 1284. HOPPER SEAT, WITHOUT COVER.

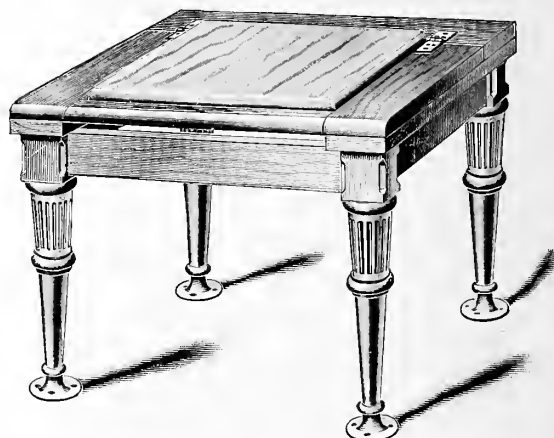


FIG. 1285. HOPPER SEAT, WITH COVER.

Fig. 1284. Finished in Natural Oak or Cherry, Seat only, each.

\$3.00

Fig. 1285. Finished in Natural Oak or Cherry, Seat only, each.

4.00

Legs extra, Painted, each.

.40

Legs extra, Galvanized, each.

.75

Hopper Seats with Self-acting Attachments for operating Fore and After Wash Tanks, add to list of Seat \$1.00.

AUTOMATIC URINAL TANKS.

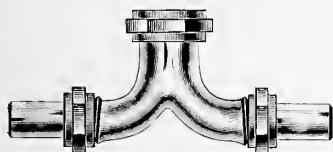


FIG. 1286.
DOUBLE CONNECTION.

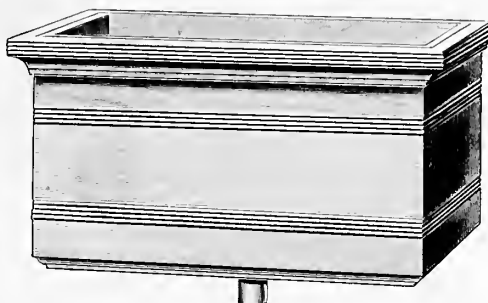


FIG. 1287. BEADED AUTOMATIC TANK, FINISHED IN NATURAL OAK OR CHERRY.

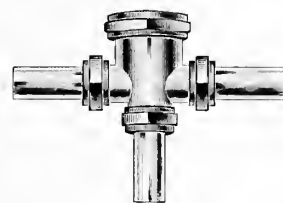


FIG. 1288.
TRIPLE CONNECTION.

No. 1.	Discharges 1 gallon of water, suitable for 1 Hopper, or 2 Urinals, with 1-inch Single Coupling.	-	-	-	-	-	-	-	-	-	-	-	-	-	\$14.00
No. 2.	Discharges 3 gallons of water, suitable for 2 Hoppers, or 3 to 6 Urinals, with 1½-inch Single Coupling.	-	-	-	-	-	-	-	-	-	-	-	-	-	16.00
No. 3.	Discharges 5 gallons of water, suitable for 3 Hoppers, or 7 to 10 Urinals, with 1½-inch Single Coupling.	-	-	-	-	-	-	-	-	-	-	-	-	-	20.00
No. 4.	Discharges 8 gallons of water, suitable for 5 Hoppers, or 8 to 12 Urinals, with 1½-inch Single Coupling.	-	-	-	-	-	-	-	-	-	-	-	-	-	25.00
No. 5.	Discharges 10 gallons of water, suitable for 6 Hoppers, or 10 to 14 Urinals, with 1½-inch Single Coupling.	-	-	-	-	-	-	-	-	-	-	-	-	-	27.00
For Double Coupling, add to list															2.00
For Triple Coupling, add to list															3.00

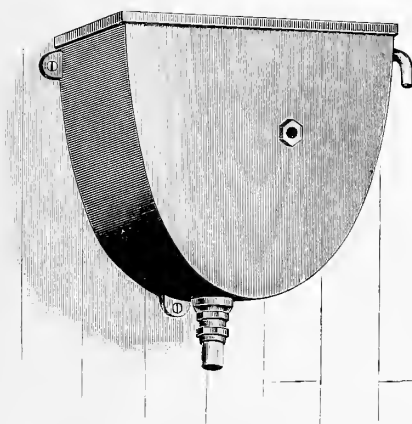


FIG. 1289. CLOW AUTOMATIC TILTING TANK,
SINGLE CONNECTION.

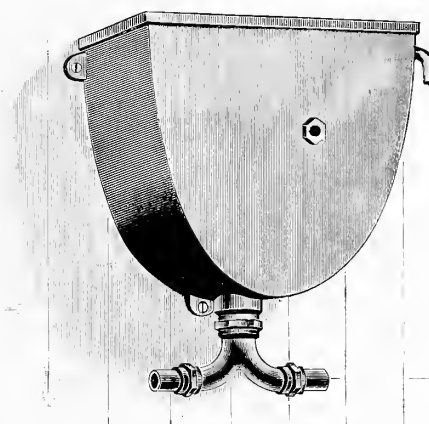


FIG. 1290. CLOW AUTOMATIC TILTING TANK, DOUBLE CONNECTION.

No. 1.	1-gallon Flush Tank, with 1-inch Coupling, for 1 Hopper, or 2 Urinals,	-	-	-	-	-	-	\$11.00
No. 2.	3-gallon Flush Tank, with 1½-inch Coupling, for 2 or 3 Hoppers, or 3 to 6 Urinals,	-	-	-	-	-	-	15.00
No. 3.	5-gallon Flush Tank, with 1½-inch Coupling, for 4 or 5 Hoppers, or 7 to 10 Urinals,	-	-	-	-	-	-	19.00
No. 4.	1-gallon Flush Tank, with 1-inch Double Coupling, for 2 Urinals,	-	-	-	-	-	-	12.50
No. 5.	3-gallon Flush Tank, with 1½-inch Double Coupling, for 2 to 3 Hoppers, or 3 to 6 Urinals,	-	-	-	-	-	-	17.50
No. 6.	5-gallon Flush Tank, with 1½-inch Double Coupling, for 4 to 5 Hoppers, or 7 to 10 Urinals,	-	-	-	-	-	-	21.50

Our Automatic Tilting Flushing Tanks are simple in construction, positive in action, and can be regulated to flush as often as needed by simply turning a cock in the Tank to fill tilting bucket in Tank in a given time. They have been used for several years, and give general satisfaction.

CLOW'S ROYAL GRANITINE LAUNDRY TUBS.

WITH ZINC TOP, SINGLE OUTLET CONNECTIONS, AND OVERFLOW.

(PATENTED.)

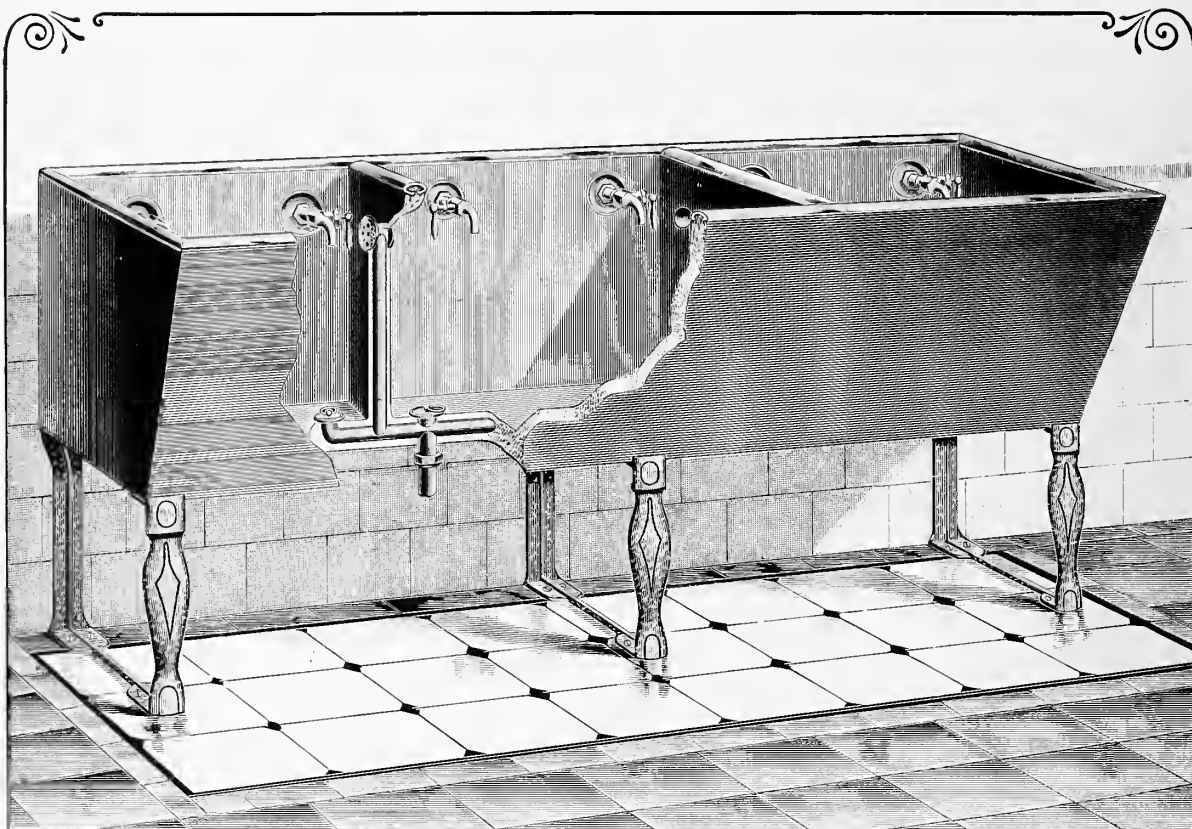


FIG. 1291.

DIMENSIONS AND PRICES.

		Single Part.	Two-part.	Two-part.	Three-part.	Three-part.
Number.	- - - - -	0	1	2	3	4
Length.	- - - - - Inches	25	48	59	72	82
Width.	- - - - - Inches	24	24	24	24	24
Depth.	- - - - - Inches	16	16	16	16	16
Each,	- - - - -	\$9.00	\$15.50	\$18.00	\$25.00	\$28.50
Heavy Pattern Legs, Galvanized.	- - - - - Per Set	5.00	5.00	5.00	7.50	7.50
Light Pattern Legs, Japanned,	- - - - - Per Set	2.00	2.00	2.00	3.00	3.00
Light Pattern Legs, Galvanized,	- - - - - Per Set	3.00	3.00	3.00	4.50	4.50

Above prices include Plugs and Couplings.

If with Soap Cups, add 75 cents each; if with Ash Covers, add for each part \$1.50.

Tubs with Faucet Holes will be sent unless otherwise ordered.

Our Laundry Tubs have always been thoroughly well made, and have given perfect satisfaction. Patents have recently been granted us covering the valuable improvements shown in cut. The Zinc Top is so placed that the cement fills the inner portion and so surrounds the outer part that it is impossible for it to become loose. The Single Outlet Connection considerably lessens the cost of connecting up the Tubs, and as space occupied by the Pipe and Fittings is very small, the Tub is not weakened in any part.

The price of these Tubs is almost the same as common Wood Wash Trays, and as they are practically indestructible, and do not become foul, they are now being used almost exclusively. They are made in one solid piece, so there is no possibility of leaking, so common with all other kinds of Wash Trays.

CLOW'S ROYAL GRANITINE LAUNDRY TUBS.

WITH ZINC TOP, SINGLE OUTLET CONNECTIONS, AND OVERFLOW.

(PATENTED.)

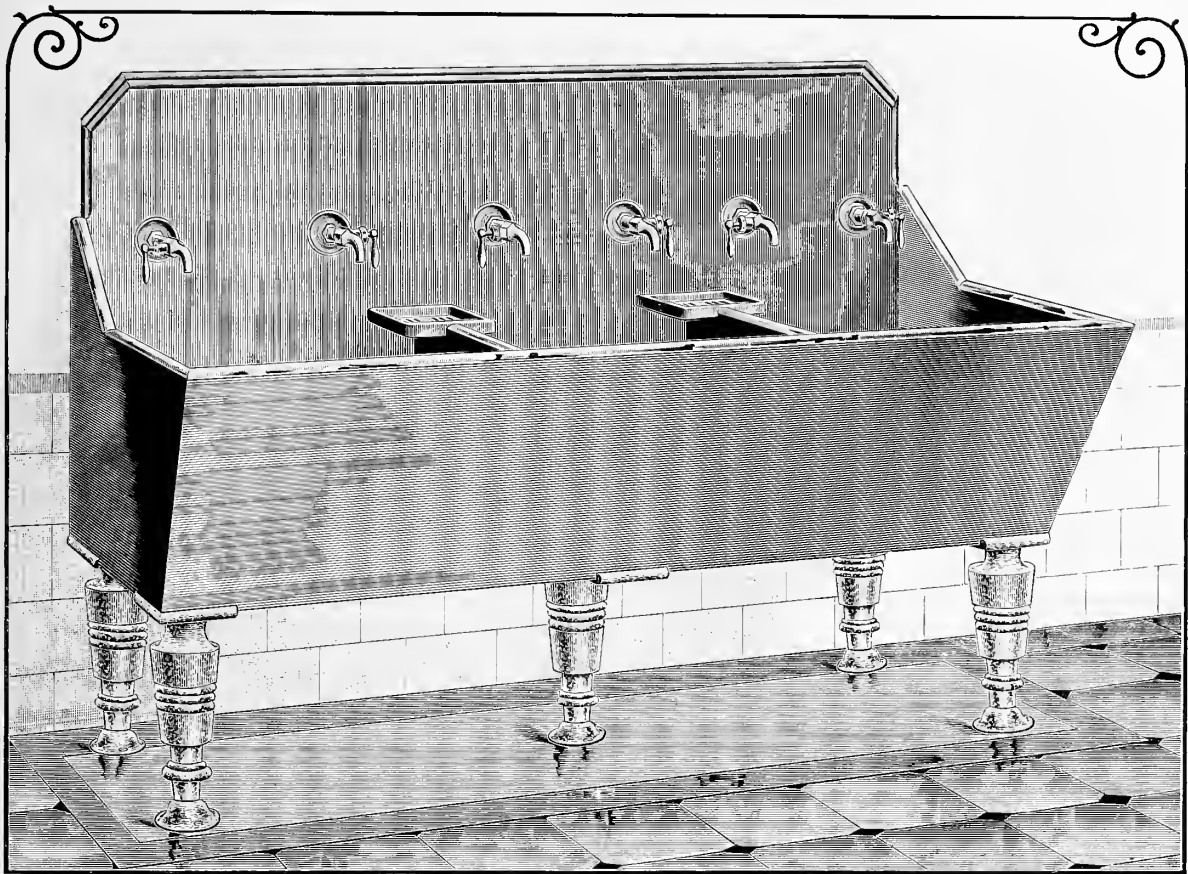


FIG. 1292.

DIMENSIONS AND PRICES.

		Two-part.	Two-part.	Three-part.	Three-part.
Number.	- - - - -	1	2	3	4
Length,	- - - - - Inches	48	59	72	82
Width,	- - - - - Inches	24	24	24	24
Depth,	- - - - - Inches	16	16	16	16
Each,	- - - - -	\$19.50	\$22.00	\$30.00	\$33.50
Heavy Pattern Legs, Galvanized,	- - - - - Per Set	5.00	5.00	7.50	7.50
Light Pattern Legs, Japanned,	- - - - - Per Set	2.00	2.00	3.00	3.00
Light Pattern Legs, Galvanized,	- - - - - Per Set	3.00	3.00	4.50	4.50

Above prices include Plugs and Couplings.

If with Soap Cups, add 75 cents each.

Tubs with Faucet Holes will be sent unless otherwise ordered.

CLOW'S SLATE LAUNDRY TUBS.

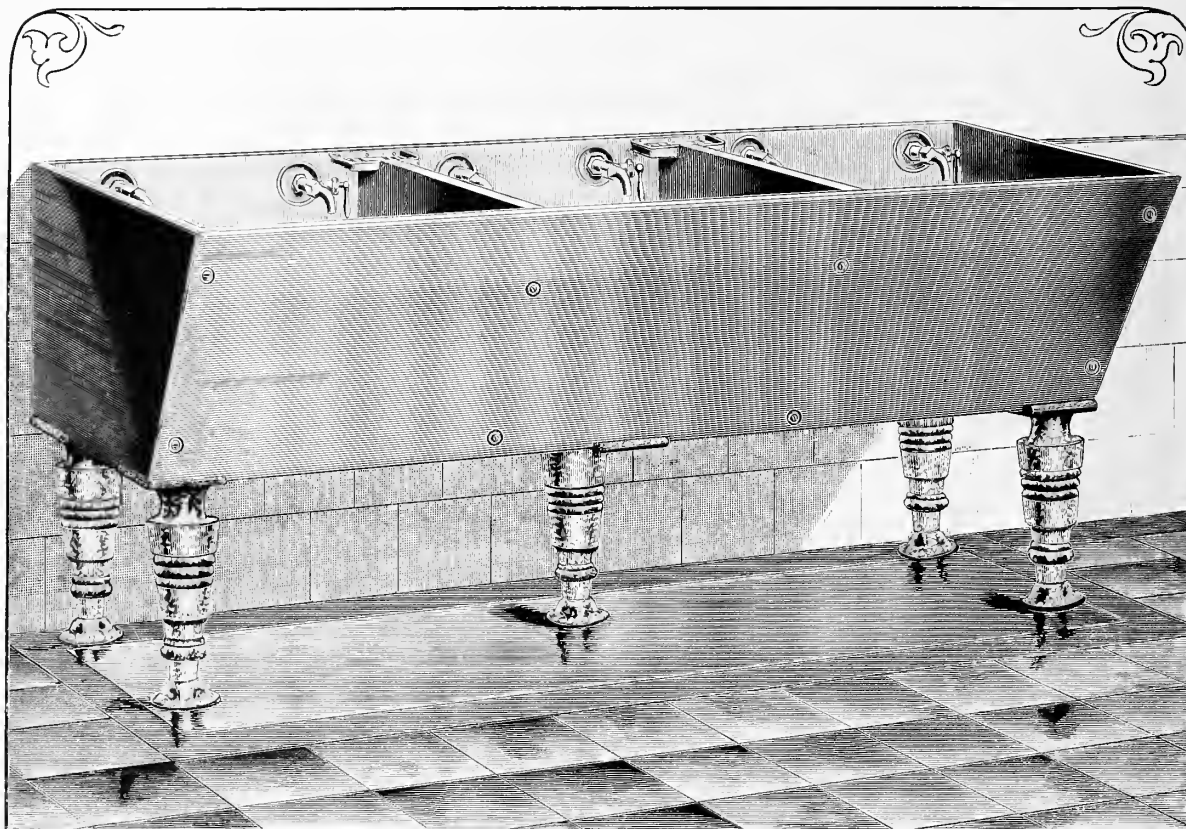


FIG. 1293.

DIMENSIONS AND PRICES.

Number.	-	-	-	-	-	-	-	-	-	-	-	Two-part.	Three-part.	Three-part.	Three-part.
Length,	-	-	-	-	-	-	-	-	-	-	-	1	2	3	4
Width,	-	-	-	-	-	-	-	-	-	-	Inches	52	76	84	90
Depth,	-	-	-	-	-	-	-	-	-	-	Inches	24	24	24	24
Each,	-	-	-	-	-	-	-	-	-	-	Inches	16	16	16	16
Heavy Pattern Legs, Galvanized,	-	-	-	-	-	-	-	-	-	-	Per Set	\$19.50	\$26.00	\$33.00	\$40.00
Light Pattern Legs, Japanned,	-	-	-	-	-	-	-	-	-	-	Per Set	5.00	6.50	6.50	6.50
Light Pattern Legs, Galvanized,	-	-	-	-	-	-	-	-	-	-	Per Set	2.00	3.00	3.00	3.00
	-	-	-	-	-	-	-	-	-	-	Per Set	3.00	4.50	4.50	4.50

Add for 1½-inch Waste Plugs, each \$1.25; if with Galvanized Soap Cups, add each 50 cents; if with Ash Covers, add each \$1.50; if with Rough Brass Continuous Waste, Nickel-plated, with Plugs for Two-part Tubs, add \$6.00; if with Rough Brass Continuous Waste, Nickel-plated, with Plugs for Three-part Tubs, add \$9.50.

Tubs with Faucet Holes will be sent unless otherwise ordered.

CLOW'S SLATE LAUNDRY TUBS.

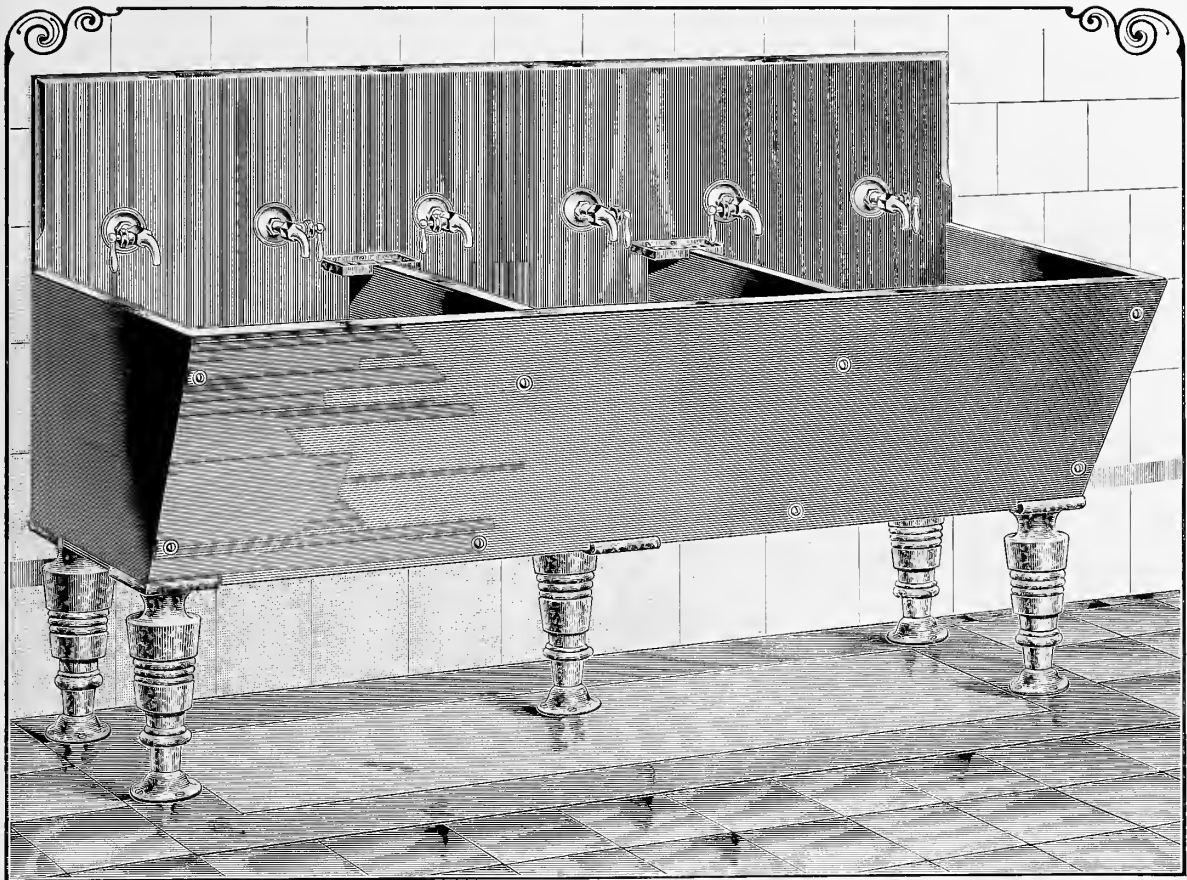


FIG. 1294.

DIMENSIONS AND PRICES.

		Two-part.	Three-part.	Three-part.	Three-part.
Number, - - - - -	- - - - -	1	2	3	4
Length, - - - - -	Inches	52	76	84	90
Width, - - - - -	Inches	24	24	24	24
Depth, - - - - -	Inches	16	16	16	16
Height of Back, - - - - -	Inches	12	12	12	12
Each, - - - - -	- - - - -	\$24.00	\$32.00	\$40.00	\$47.00
Heavy Pattern Legs, Galvanized, - - - - -	Per Set	5.00	6.50	6.50	6.50
Light Pattern Legs, Japanned, - - - - -	Per Set	2.00	3.00	3.00	3.00
Light Pattern Legs, Galvanized, - - - - -	Per Set	3.00	4.50	4.50	4.50

Add for 1½-inch Waste Plugs, each \$1.25; if with Galvanized Soap Cups, add each 50 cents; if with Rough Brass Continuous Waste, Nickel-plated, with Plugs for Two-part Tubs, add \$6.00; if with Rough Brass Continuous Waste, Nickel-plated, with Plugs for Three-part Tubs, add \$9.50.

Tubs with Faucet Holes will be sent unless otherwise ordered.

CLOW'S PORCELAIN-LINED CAST-IRON WASH TRAYS.

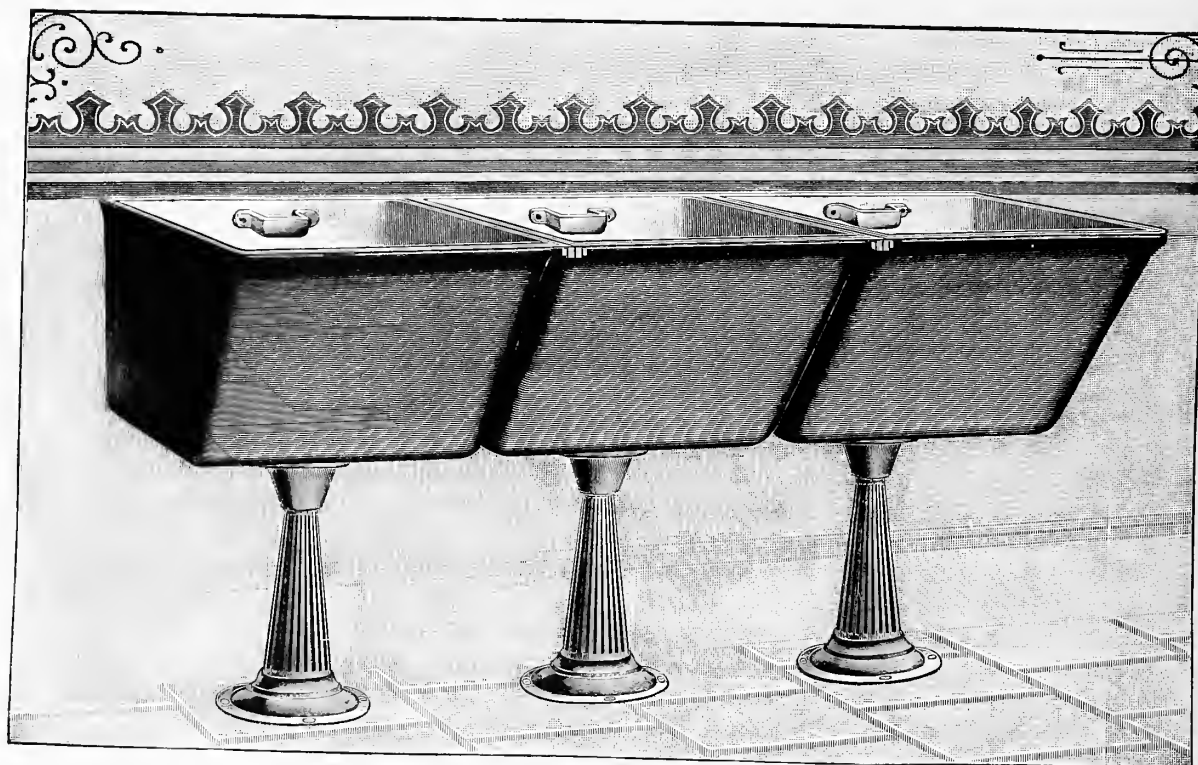


FIG. 1297.

DIMENSIONS.

Inside from front to back, 22 inches; right to left, 24 inches; depth, $14\frac{1}{2}$ inches; height from floor to top of rim, 32 inches.

PRICES.

Porcelain-lined, per set of Three Trays, with Nickel-plated Brass Couplings and Rubber Stoppers, as shown.	\$48.00
Porcelain-lined, each Tray, with Nickel-plated Brass Couplings and Rubber Stopper.	16.00
If with Common Overflow and Nickel-plated Strainer, add, each.	1.00
If with Patent Overflow and Nickel-plated Strainer, add, each.	2.00
If with Rough Brass Continuous Waste, Nickel-plated, with Plugs, for Two-part Tubs, add	6.00
If with Rough Brass Continuous Waste, Nickel-plated, with Plugs, for Three-part Tubs, add	9.50
If with Ash Top, add, each.	1.50
If with Ash Top and Cover, add, each.	3.00

Tubs with Faucet Holes will be sent unless otherwise ordered.

CLOW'S PORCELAIN KITCHEN SINKS.

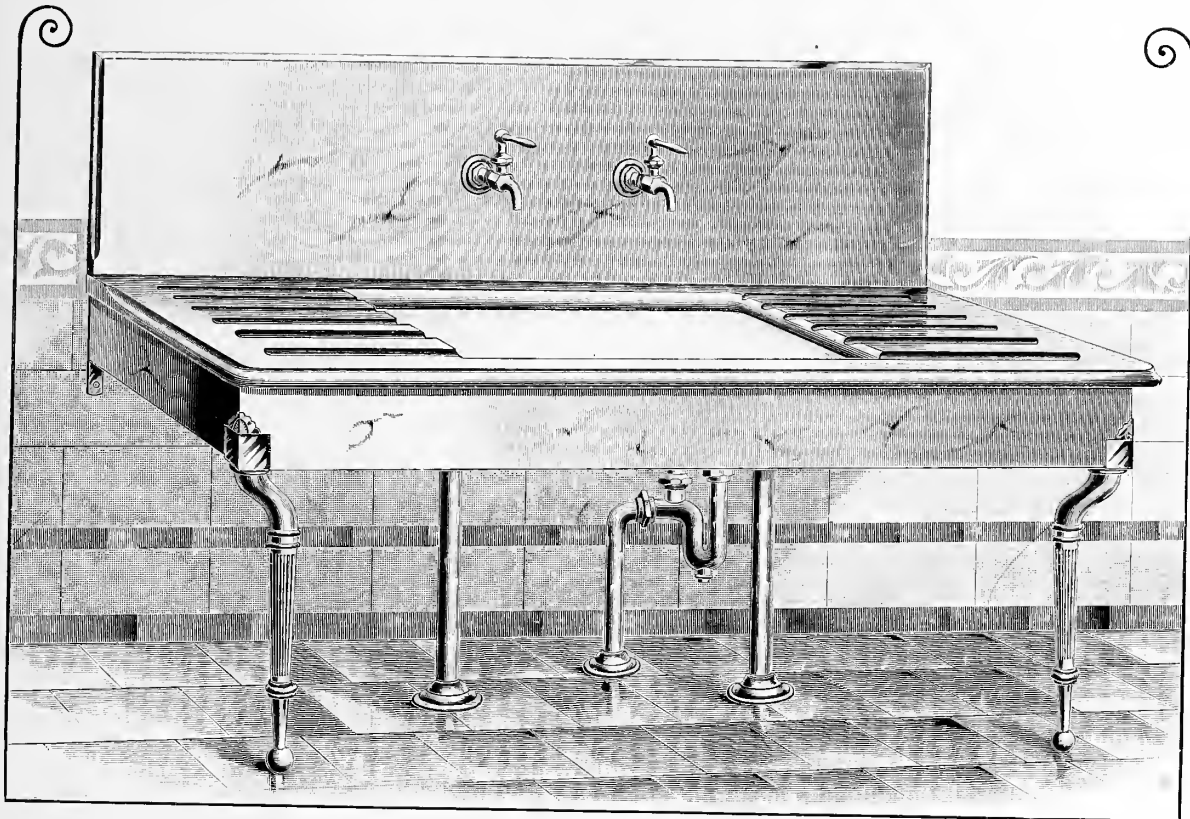


FIG. 1298.

Includes Porcelain Kitchen Sink, with 1½-inch Countersunk Marble Top and 20-inch Double Drain-board, Marble Back 18 inches high, and 8-inch Aprons, Front and Ends. Nickel-plated Brass Offset, Legs, Apron Supports, 1½-inch Nickel-plated Brass Trap, with Waste to Floor and Vent to Wall. Nickel-plated Brass Supports, ½-inch Nickel-plated Fuller Plain Bibbs, with Flange and Thimble, complete.

DIMENSIONS AND PRICES.

Size of Sink,	-	-	-	-	-	-	-	-	-	-	-	-	Inches	30 x 20	36 x 23
Depth of Sink,	-	-	-	-	-	-	-	-	-	-	-	-	Inches	7	7
Length of Marble,	-	-	-	-	-	-	-	-	-	-	-	-	Inches	66	72
Width of Marble,	-	-	-	-	-	-	-	-	-	-	-	-	Inches	25	28
Price as described, with Italian Marble,	-	-	-	-	-	-	-	-	-	-	-	-	-	\$103.25	\$119.25
Price as described, with Pink Tennessee Marble,	-	-	-	-	-	-	-	-	-	-	-	-	-	108.50	125.75

Above can also be furnished with Right or Left Hand End.

CLOW'S PORCELAIN PANTRY SINKS.

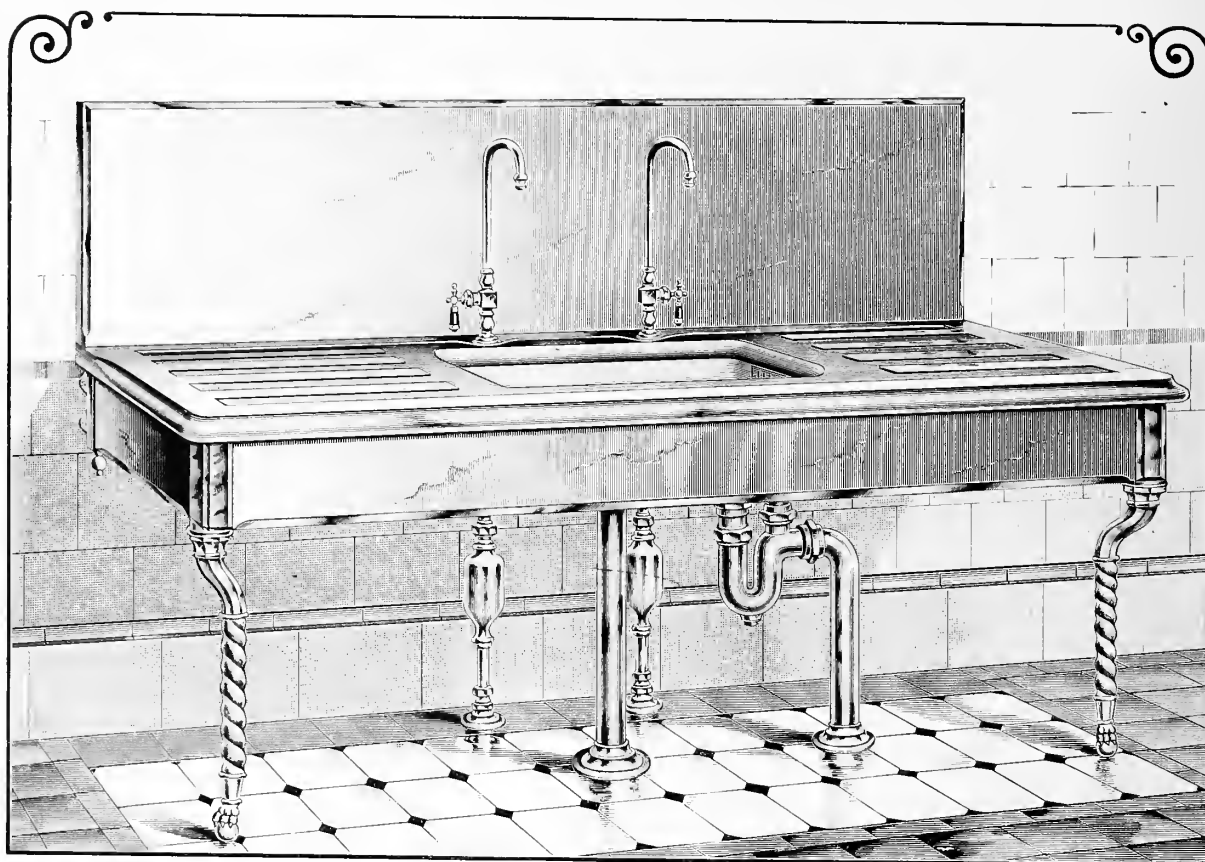


FIG. 1299.

Includes Porcelain Pantry Sink, with $1\frac{1}{2}$ -inch Countersunk Marble Top and 20-inch Double Drain-board, Marble Back 18 inches high, and 8-inch Aprons, Front and Ends. Nickel-plated Brass Offset, Legs, Apron Supports, $1\frac{1}{2}$ -inch Nickel-plated Brass Trap, with Waste to Floor and Vent to Wall. Nickel-plated Brass Supports, No. 2 Nickel-plated Fuller Pantry Cocks, complete.

DIMENSIONS AND PRICES.

Size of Sink,	Inches	24 x 14	23 x 16	24 x 17	28 x 17	30 x 20
Length of Marble,	Inches	56	60	60	64	66
Width of Marble,	Inches	20	22	24	24	27
Price as described, with Italian Marble,		\$83.25	\$89.75	\$93.75	\$ 99.25	\$106.25
Price as described, with Pink Tennessee Marble,		87.75	94.50	98.75	104.50	112.00

If with Supply Pipes to floor, add \$5.00.

Above can also be furnished with Right or Left Hand End.

CLOW'S COPPER PANTRY SINKS.

WITH DRIP-BOARD.

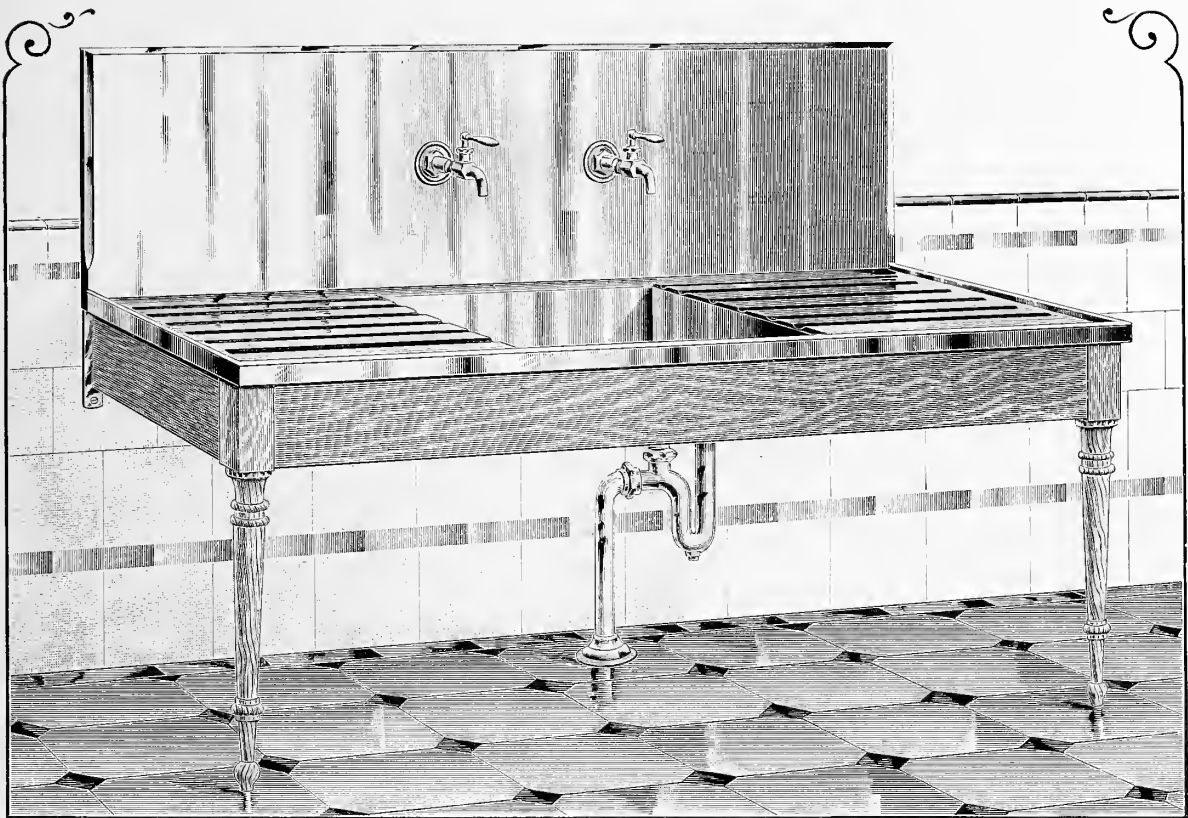


FIG. 1300.

Includes Planished Copper Pantry Sink, with Connected Overflow and Waste, Grooved Wooden Drip-board, Lined with Planished Copper, and 18-inch Planished Copper Back, Oak Frame and Turned Legs, $1\frac{1}{2}$ -inch Nickel-plated Trap, with Waste to Floor and Vent to Wall, two $\frac{1}{2}$ -inch Nickel-plated Fuller Flange and Thimble Faucets, complete.

DIMENSIONS AND PRICES.

Size of Sink, - - - - -	Inches	14 x 20	16 x 24	16 x 30	18 x 30	20 x 30
Length over all, - - - - -	Inches	62	66	72	72	72
Width over all, - - - - -	Inches	21	23	23	25	27
Price, complete as described, - - - - -		\$41.00	\$46.00	\$48.00	\$49.00	\$50.00

If with Right or Left Hand End, add \$5.00; if with Recess, add \$10.00; if with Nickel-plated Brass Legs (Fig. 984), add \$11.50.

CLOW'S SLATE KITCHEN SINKS.

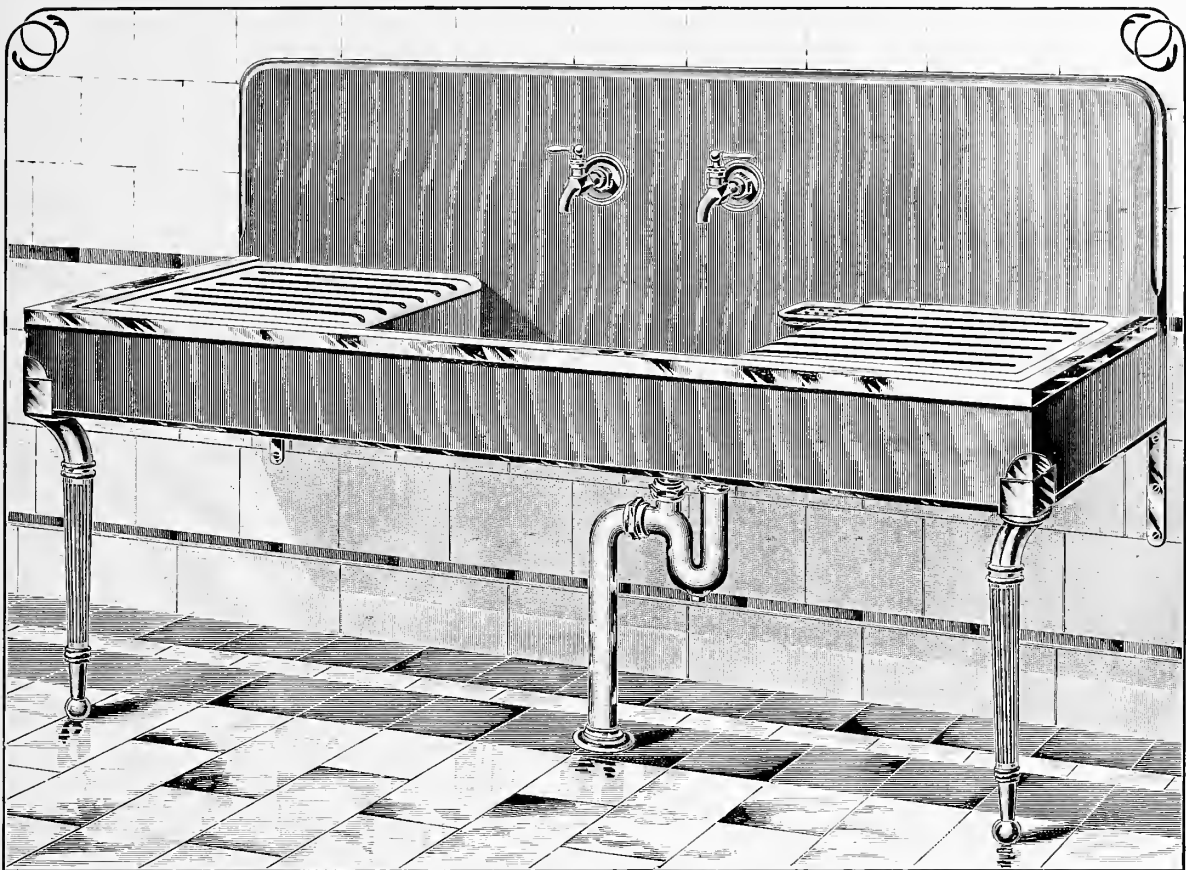


FIG. 1303.

Includes Slate Kitchen Sink, with 20-inch high Back, 18-inch Grooved Drain-boards with Aprons, Polished Brass Rim, Galvanized Iron Legs and Frame, 1½-inch Polished Brass Trap, with Waste to Floor and Vent to Wall, Polished Brass Fuller Flange and Thimble Faucets, and Soap Cup, complete.

DIMENSIONS AND PRICES.

Size of Sink, - - - - -	Inches	18 x 24	20 x 30	20 x 36	20 x 40	22 x 42	22 x 48	24 x 48
Depth of Sink, - - - - -	Inches	8	8	8	8	8	8	8
Total Length, - - - - -	Inches	60	66	72	76	78	84	84
Price as described, without Polished Brass Rim, - - -		\$42.75	\$44.50	\$46.25	\$48.00	\$50.00	\$51.75	\$53.50
Price as described, with Polished Brass Rim, - - -		51.50	53.50	55.50	57.50	59.50	61.50	63.50
Price as described, with Nickel-plated Brass Rim and Trap, -		55.50	57.50	59.50	61.75	63.75	66.00	68.00

If with Polished Brass Legs and Brackets, and Bronzed Iron Frame, add \$13.00; Nickel-plated Brass Legs and Brackets, and Nickel-plated Iron Frame, \$15.00; if without Soap Cup, deduct 50 cents; if without Brass Trap, deduct \$7.00.

Above can also be furnished with Right or Left Hand End.

CLOW'S SLATE KITCHEN SINKS.

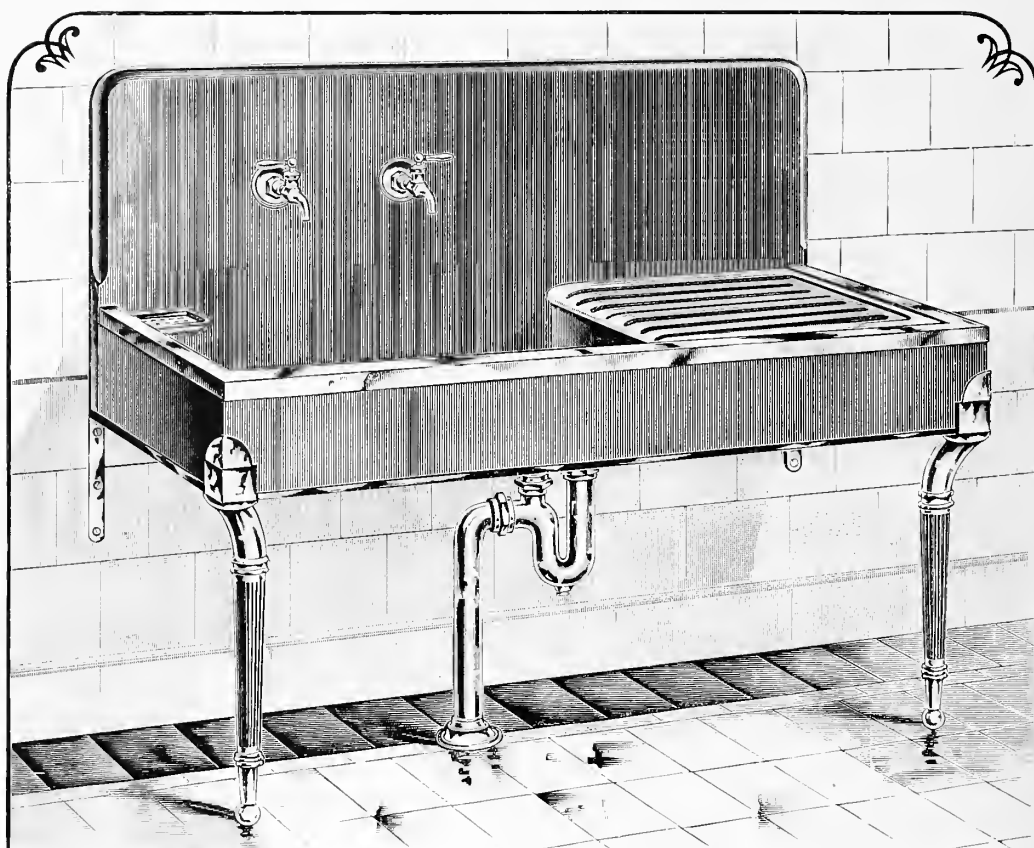


FIG. 1304.

Includes Slate Kitchen Sink, with 16-inch high Back, and 24-inch Grooved Drain-board with Aprons. Polished Brass Rim. Galvanized Iron Legs and Frame, 1½-inch Polished Brass Trap, with Waste to Floor and Vent to Wall, Polished Brass Fuller Flange and Thimble Faucets, and Soap Cup, complete.

DIMENSIONS AND PRICES.

Size of Sink,	Inches	18 x 24	20 x 30	20 x 36	20 x 40	22 x 42	22 x 48	24 x 48
Depth of Sink,	Inches	8	8	8	8	8	8	8
Total Length,	Inches	48	54	60	64	66	72	72
Price as described, without Polished Brass Rim,		\$35.50	\$36.75	\$38.00	\$39.25	\$40.75	\$42.50	\$44.25
Price as described, with Polished Brass Rim,		43.50	45.00	46.50	48.00	49.50	51.50	53.50
Price as described, with Nickel-plated Brass Rim and Trap,		47.25	48.75	50.25	52.00	53.50	55.75	57.75

If with Brass Legs and Brackets, and Bronzed Iron Frame, add \$13.00; Nickel-plated Brass Legs and Brackets, and Nickel-plated Iron Frame, \$15.00; if without Soap Cup, deduct 50 cents; if without Brass Trap, deduct \$7.00.

Above can also be furnished with Right or Left Hand End.

CLOW'S SLATE KITCHEN SINKS.

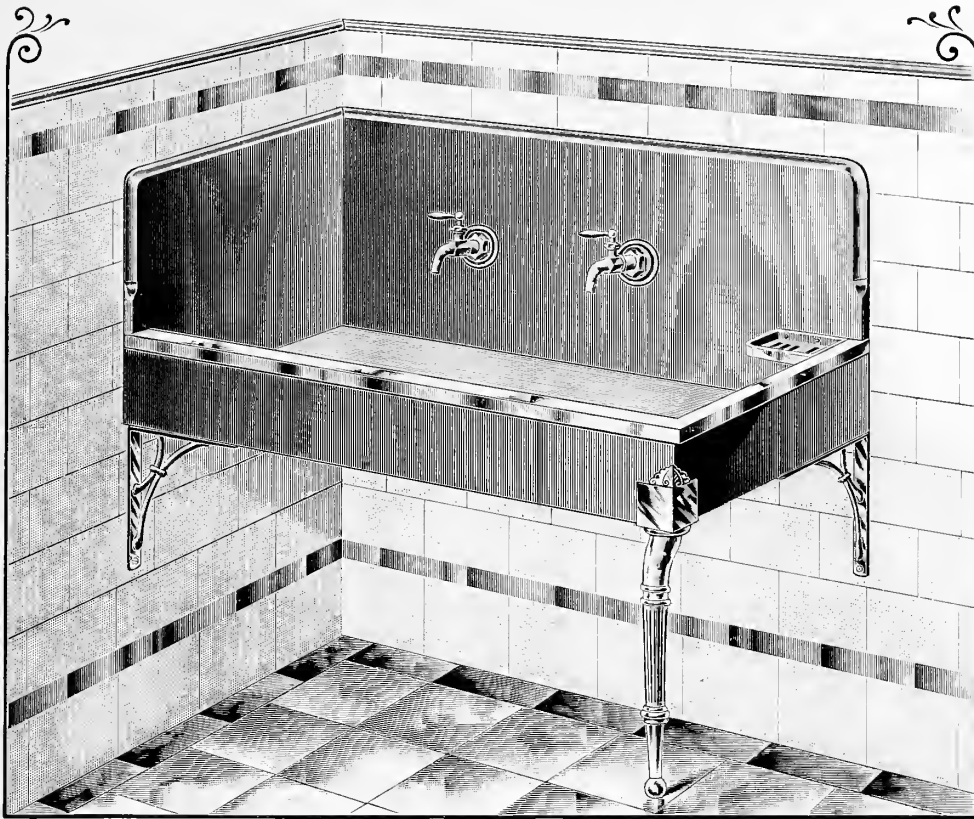


FIG. 1305.

Includes Slate Kitchen Sink, with 16-inch high Back and End, Polished Brass Rim, Galvanized Leg and Nickel-plated Steel Brackets, Polished Brass Fuller Flange and Thimble Faucets, and Soap Cup, complete.

DIMENSIONS AND PRICES.

Size of Sink, - - - - -	Inches	18 x 24	20 x 30	20 x 36	20 x 40	22 x 42	22 x 48	24 x 48
Depth of Sink, - - - - -	Inches	8	8	8	8	8	8	8
Price as described, without Polished Brass Rim.	-	\$18.25	\$19.50	\$20.75	\$22.00	\$23.50	\$24.75	\$26.25
Price as described, with Polished Brass Rim, -	-	22.75	24.25	25.75	27.25	28.75	30.25	31.75
Price as described, with Nickel-plated Brass Rim,	-	24.75	26.25	27.75	29.50	31.00	32.75	34.25

If with Brass Leg and Brackets, and Bronzed Iron Frame, add \$8.50; Nickel-plated Brass Leg and Brackets, and Nickel-plated Iron Frame, \$9.75; if with Polished Brass Trap, add \$7.00; if with Nickel-plated Brass Trap, add \$7.50; if without Soap Cup, deduct 50 cents.

CLOW'S SLATE KITCHEN SINKS.

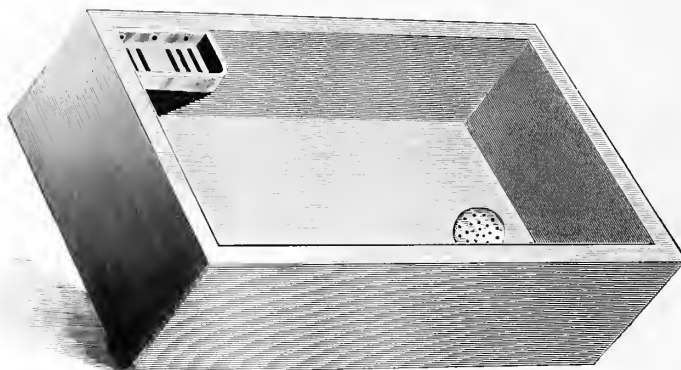


FIG. 1306.

DIMENSIONS AND PRICES.

Size of Sink,	-	-	-	-	-	Inches	18 x 24	20 x 30	20 x 36	20 x 40	22 x 42	22 x 48	24 x 48
Depth of Sink,	-	-	-	-	-	Inches	8	8	8	8	8	8	8
Price.	-	-	-	-	-	Each	\$5.50	\$6.25	\$7.00	\$7.25	\$7.50	\$8.50	\$9.50

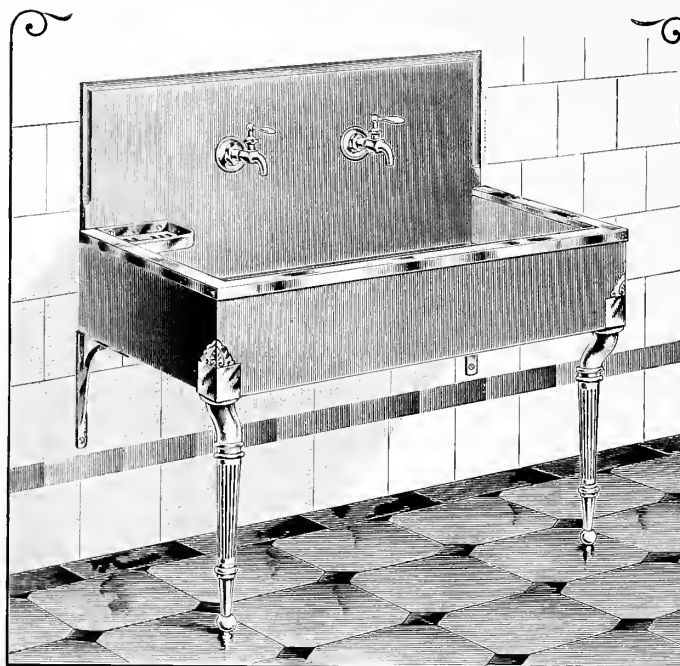


FIG. 1307.

Includes Slate Kitchen Sink, 12-inch high Back, Polished Brass Rim, Galvanized Iron Legs and Brackets, Polished Brass Fuller Flange and Thimble Faucets, and Soap Cup, complete.

DIMENSIONS AND PRICES.

Size of Sink,	-	-	-	-	-	Inches	18 x 24	20 x 30	20 x 36	20 x 40	22 x 42	22 x 48	24 x 48
Depth of Sink,	-	-	-	-	-	Inches	8	8	8	8	8	8	8
Price as described, without Polished Brass Rim,	-	-	-	-	-	-	\$16.75	\$17.50	\$18.25	\$19.00	\$20.00	\$21.25	\$22.75
Price as described, with Polished Brass Rim,	-	-	-	-	-	-	22.25	23.25	24.25	25.25	26.25	27.75	29.25
Price as described, with Nickel-plated Polished Brass Rim,	-	-	-	-	-	-	24.75	25.75	26.75	28.00	29.00	30.75	32.25

Add, if with Polished Brass Legs and Brackets, and Bronzed Iron Frame, \$13.00; Nickel-plated Brass Legs and Brackets, and Nickel-plated Iron Frame, \$15.00; if with Polished Brass Trap, add \$7.00; if with Nickel-plated Brass Trap, add \$7.50; if without Soap Cup, deduct 50 cents.

CLOW'S FLUSHING RIM SLOP SINKS.

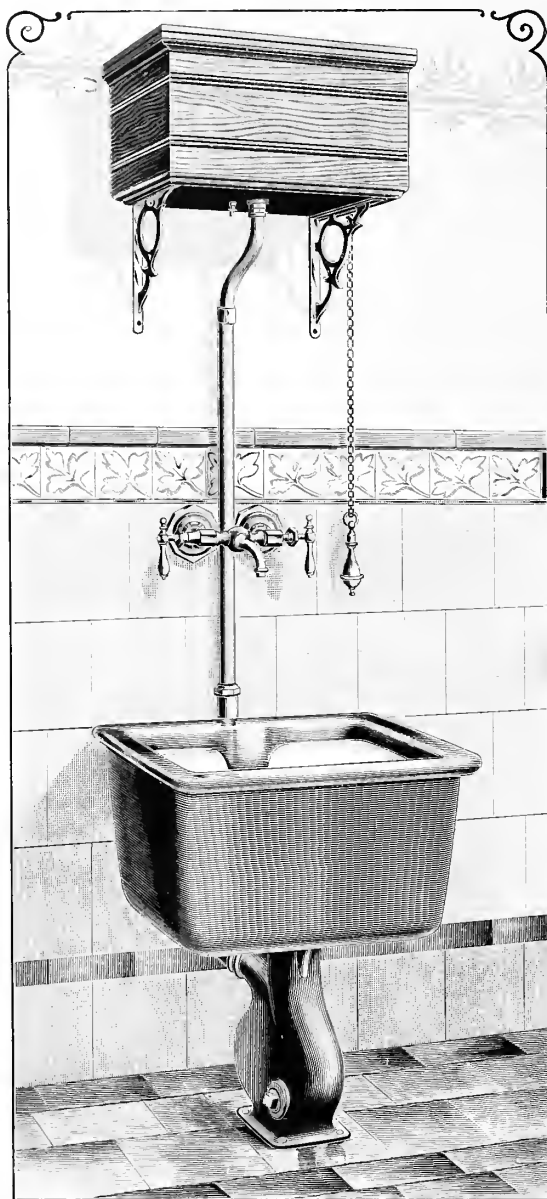


FIG. 1310.

Includes Enameled Slop Sink, with Polished Brass Flushing Rim, with Trap Standard and Brass Vent to Wall, Nickel-plated Fuller Combination Faucet, Brass Flush Pipe, and Hardwood Beaded Single Discharge Siphon Tank.

DIMENSIONS AND PRICES.

Size of Sink,	-	-	-	-	-	-	-	-	Inches	16 x 20	18 x 22	20 x 24
Depth of Sink,	-	-	-	-	-	-	-	-	Inches	12	12	12
Price, Enameled Inside,	-	-	-	-	-	-	-	-	-	\$46.50	\$49.50	\$51.50
Price, Enameled Inside and Outside,	-	-	-	-	-	-	-	-	-	51.50	55.00	57.50

If with Nickel-plated Brass Parts, add \$6.00.

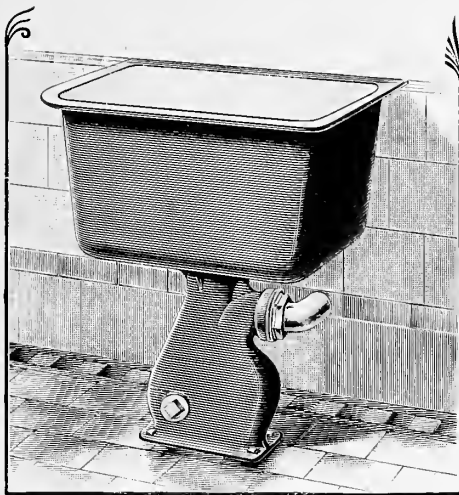


FIG. 1311.

CLOW'S SLOP SINKS.

ALL PORCELAIN. GLAZED INSIDE AND OUTSIDE.

Fig. 1311 includes Enameled Iron Slop Sink on Trap Standard, with Brass Strainer and Vent Connection to Wall, complete.

Fig. 1311. Size of Sink, Inches	16 x 20 x 12	18 x 22 x 12	20 x 24 x 12
Enameled Inside, - - -	\$13.00	\$14.50	\$16.00
Enameled Inside and Outside, -	18.00	20.00	22.00

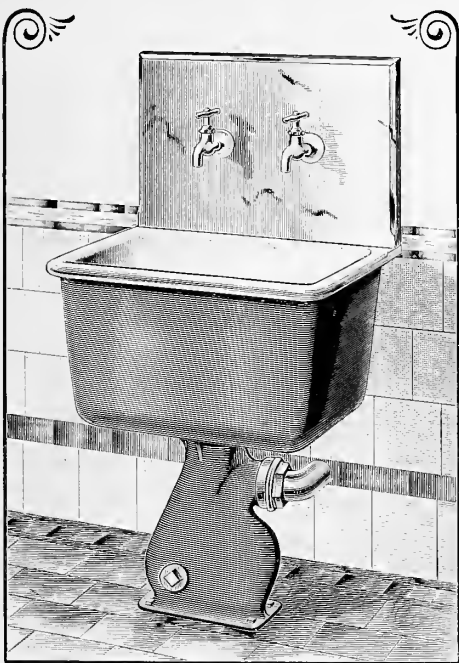


FIG. 1312.

Fig. 1312 includes Enameled Iron Rolled Rim Slop Sink on Trap Standard, with Brass Strainer and Vent Connection to Wall, 16-inch Italian Marble Back, and Nickel-plated Self-closing Faucets, complete.

Fig. 1313 includes Porcelain Rolled Edge Slop Sink, with 16-inch Marble Back, Nickel-plated Brass Legs, with Extension Brackets, and Nickel-plated Self-closing Faucets.

Fig. 1312. Size of Sink, - - -	Inches	16 x 20 x 12	18 x 22 x 12	20 x 24 x 12
Enameled Inside, - - -	-	\$21.00	\$23.00	\$25.00
Enameled Inside and Outside, - - -	-	26.00	28.50	31.00

Fig. 1313. Size of Sink, - - -	Inches	16 x 20 x 12	18 x 22 x 12
Price as described, - - -	-	\$59.00	\$65.00

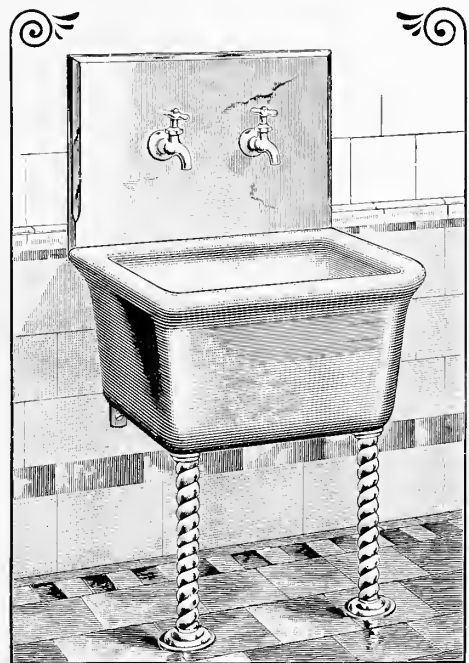


FIG. 1313.

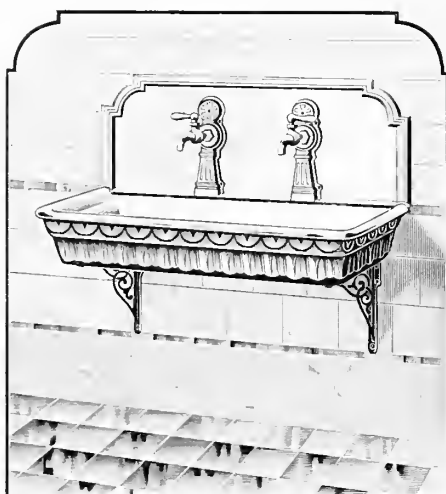


FIG. 1314. IMPROVED ROLL RIM SINK, ON BRACKETS.
ORNAMENTAL BRONZED EXTERIOR.

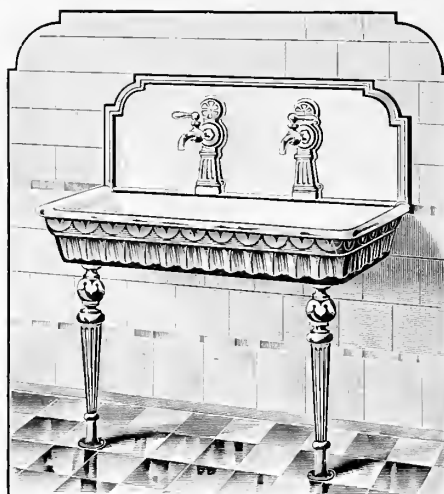


FIG. 1315. IMPROVED ROLL RIM SINK, ON LEGS.
ORNAMENTAL BRONZED EXTERIOR.

IMPROVED ROLL RIM SINKS.—Figs. 1314 and 1315.

SIZE	INCHES	22 x 30 x 7	22 x 36 x 7	22 x 42 x 7	22 x 48 x 7
FIG. 1314. ENAMELED	EACH	24.25	27.25	30.25	34.25
FIG. 1315. ENAMELED	EACH	25.75	28.75	31.75	35.75

Above prices include 14-inch Back, with Air Chambers and two Nickel-plated Fuller Faucets, Bronzed Brackets or Legs.

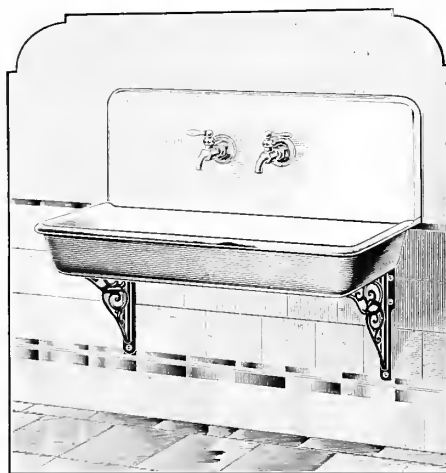


FIG. 1316.
ENAMELED ROLL RIM SINK, ON BRACKETS.

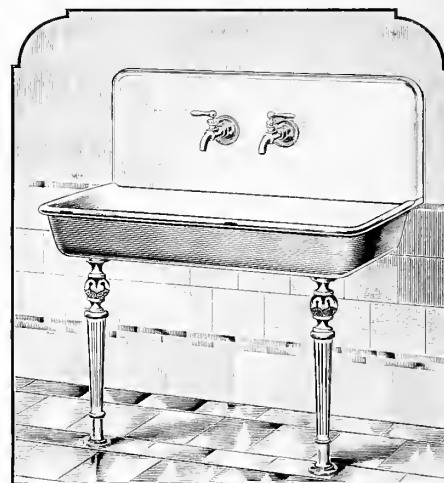


FIG. 1317.
ENAMELED ROLL RIM SINK, ON LEGS.

ROLL RIM SINKS.—Figs. 1316 and 1317.

SIZE	INCHES	18 x 30	18 x 36	20 x 30	20 x 36	20 x 40	22 x 36	22 x 42
FIG. 1316. GRAY ENAMELED	EACH	11.25	12.75	12.25	13.25	14.75	13.75	15.25
FIG. 1316. WHITE ENAMELED	EACH	16.25	17.75	17.25	18.75	20.25	19.25	20.75
FIG. 1317. GRAY ENAMELED	EACH	11.75	13.25	12.75	13.75	15.25	14.25	15.75
FIG. 1317. WHITE ENAMELED	EACH	16.75	18.25	17.75	19.25	20.75	19.75	21.25

Above prices include 15-inch Back, Nickel-plated Fuller Faucets, Brackets or Legs. The Gray Enameled Sinks are Painted Outside; White Enameled Sinks are Bronzed Outside.

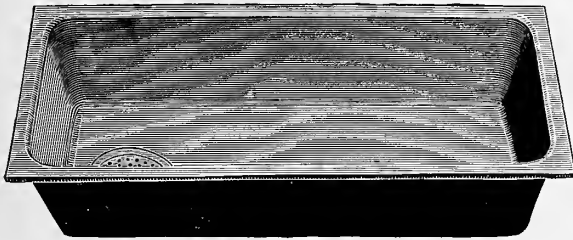
WROUGHT STEEL SINKS.

FIG. 1318.
COLUMBUS STEEL SINK.

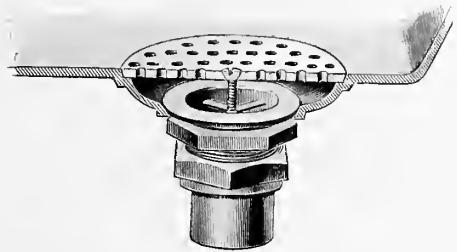


FIG. 1319.
SHOWING CONNECTION USED WITH COLUMBUS SINK.

COLUMBUS STEEL SINKS.—Figs. 1318 and 1319.

SIZE - - - - - INCHES		16 x 24	18 x 30	18 x 36	20 x 30	20 x 36	20 x 40
PAINTED - - - - - EACH		1.80	2.50	3.00	3.00	3.70	4.00
GALVANIZED - - - - - EACH		4.00	5.10	6.50	6.25	7.75	8.50
GRAY ENAMELED - - - - - EACH		6.50	8.50	9.50	9.00	10.50	11.50
WHITE ENAMELED - - - - - EACH		7.50	10.00	11.00	10.50	12.00	13.00

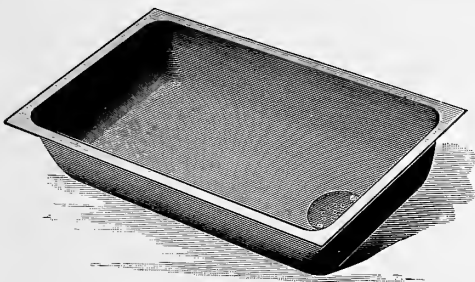


FIG. 1320.
NEW ERA STEEL SINK.

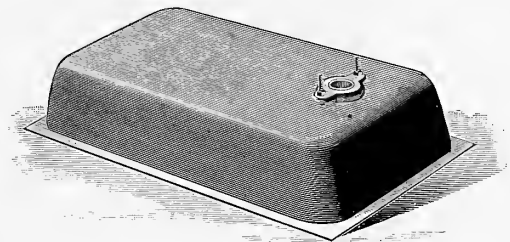


FIG. 1321.
SHOWING CONNECTION USED WITH NEW ERA SINK.

NEW ERA STEEL SINKS.—Figs. 1320 and 1321.

SIZE - - - - - INCHES		16 x 24	18 x 30	18 x 36	20 x 30	20 x 36	20 x 40
PAINTED - - - - - EACH		1.80	2.50	3.00	3.00	3.70	4.00
GALVANIZED - - - - - EACH		4.00	5.10	6.50	6.25	7.75	8.50
GRAY ENAMELED - - - - - EACH		6.50	8.50	9.50	9.00	10.50	11.50
WHITE ENAMELED - - - - - EACH		7.50	10.00	11.00	10.50	12.00	13.00



FIG. 1322.
COLUMBUS OVAL STEEL PANTRY SINK.

One size only, 14 x 20 x 6 inches, with Common Overflow, Nickel-plated Strainer, Brass Coupling, and Rubber Plug.

	Painted.	Galvanized.	Gray Enameled.	White Enameled
EACH - - - - -	2.00	3.50	5.50	6.50

Oval Pantry Sinks with Patent Overflow, 75 cents net, extra.

CAST-IRON SQUARE SINKS.—Fig. 1323.



FIG. 1323.

Size, Inches.	Depth, Inches.	Price, Painted.	Price, Galvanized.	Price, Gray Enameled.	Price, White Enameled.	Average Weight, Pounds.
12 x 18	5	1.25	2.60	2.60	4.75	17
14 x 20	6	1.50	3.20	3.20	6.00	19
15 x 23	6	1.70	3.40	3.40	6.25	23
15 x 25	6	1.75	3.60	3.60	6.50	26
15 x 27	6	2.00	4.25	4.25	7.25	28
16 x 24	6	1.80	4.00	4.00	6.50	26
16 x 28	6	2.10	4.50	4.50	7.50	30
16 x 30	6	2.25	4.75	4.75	7.75	31
18 x 24	6	2.10	4.30	4.30	7.00	31
18 x 30	6	2.50	5.10	5.10	8.50	35
18 x 32	6	3.00	6.25	6.25	9.50	37
18 x 36	6	3.00	6.50	6.50	9.50	42
18 x 42	6	4.00	8.75	8.75	11.75	49
19 x 38	6	3.80	8.00	8.00	11.00	51
20 x 24	6	2.40	5.00	5.00	7.50	32
20 x 30	6	3.00	6.25	6.25	9.00	38
20 x 36	6	3.70	7.75	7.75	10.50	46
20 x 38	6	3.80	8.00	8.00	11.00	48
20 x 40	6	4.00	8.50	8.50	11.50	50
20 x 42	6	4.25	9.00	9.00	12.00	58
20 x 48	6	5.30	11.50	11.50	13.25	66
22 x 42	6	4.25	9.00	9.00	12.00	61
24 x 48	6	5.75	12.25	12.25	15.00	85
24 x 50	6	7.50	16.00	16.00	18.00	87
22 x 62	6	10.75	22.00	22.00	26.00	95
22 x 76	6	15.00	32.00	32.00	----	115

Add to List, if with Patent Overflow: Painted, \$1.00; Galvanized, \$1.25; Gray Enameled, \$1.25; White Enameled, \$1.50.
Add, if with Plug Strainer: Painted, 20c.; Galvanized, 25c.; Enameled, 50c.

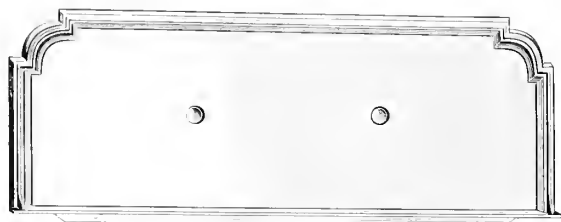


FIG. 1324. SINK BACK.

SINK BACKS.—Fig. 1324.

SIZE - - - - - INCHES	20	22	24	30	36	42	48
PAINTED - - - - - EACH	.90	.95	1.05	1.40	1.90	2.45	3.00
GRAY ENAMELED OR GALVANIZED EACH	1.60	1.75	2.00	2.80	3.50	4.25	5.00
WHITE ENAMELED - - - EACH	2.25	2.35	2.60	3.50	4.25	5.00	5.75

Sink Backs will always be sent with two cock-holes, unless otherwise ordered.

Sink Back, with Air Chambers, including Brass Couplings and Iron Pipe, add to list of Sink Backs, Fig. 1324: Painted, \$2.80; Galvanized or Gray Enameled, \$3.20; White Enameled, \$4.40.

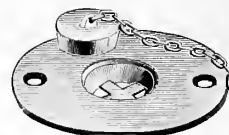
FIG. 1325.
SINK STRAINER.FIG. 1326.
SINK COUPLING.FIG. 1327. SINK COUPLING,
TAPPED FOR IRON PIPE WASTE.FIG. 1328.
IRON SINK PLUG.FIG. 1329.
SINK BOLT.

FIGURE - - - - -		1325	1326	1327	1328
PAINTED - - - - - PER DOZEN		1.50	1.50	9.00	3.25
GALVANIZED - - - - - PER DOZEN		2.60	2.00	10.80	5.00
ENAMELED - - - - - PER DOZEN		3.00	----	----	6.00

Fig. 1329. Iron Sink Bolts, per package (100), \$2.00. Short Brass Sink Bolts, per dozen, 60 cents.

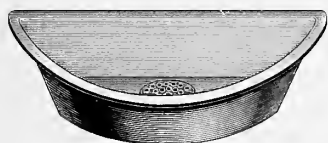


FIG. 1330. HALF-CIRCLE SINK.

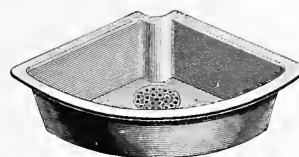


FIG. 1331. CORNER SINK.

No.	Back, Inches.	Width, Inches.	Depth, Inches.	Price, Painted.	Price, Galvanized.	Price, Gray Enameled.	Price, Enameled.
1	24	14	6	1.50	3.25	3.25	6.00
2	27	16	6	1.80	3.90	3.90	7.00
3	29	16	6	2.00	4.50	4.50	8.00
4	31	17	6	2.25	4.75	4.75	9.00

No.	Side, Inches.	Front, Inches.	Depth, Inches.	Price, Painted.	Price, Galvanized.	Price, Gray Enameled.	Price, Enameled.
1	17½	24½	6	1.25	2.75	2.75	6.00
2	20	29	6	1.75	3.50	3.50	7.00
3	22	31	6½	2.10	4.20	4.20	8.00

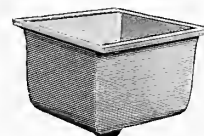
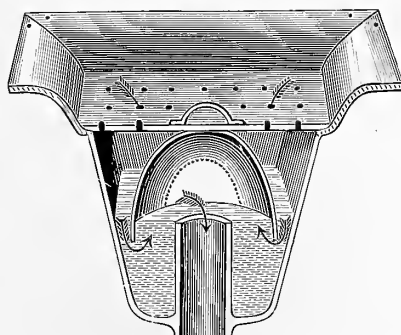
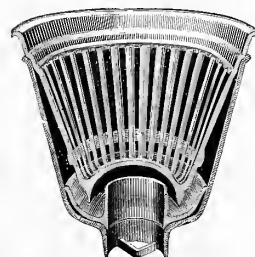
FIG. 1332.
SLOP SINK, WITH 2-INCH OUTLET.

FIG. 1333. SQUARE SLOP SINK, WITH ROUNDED CORNERS AND 4-INCH OUTLET IN CENTER.

SIZE	INCHES	16 x 16	20 x 14	24 x 20
DEPTH	INCHES	10	12	12
PAINTED	EACH	2.70	3.50	5.00
GALVANIZED	EACH	5.25	6.50	9.50
GRAY ENAMELED	EACH	5.25	6.50	9.50
WHITE ENAMELED	EACH	7.50	8.50	11.50

SIZE	INCHES	16 x 16	20 x 22
DEPTH	INCHES	10	12
PAINTED	EACH	3.25	5.00
GALVANIZED	EACH	6.00	10.00
GRAY ENAMELED	EACH	6.00	10.00

Furnished with Patent Overflow or Plug Strainer same extra price as Square Sinks.

FIG. 1334.
HARRIS SLOP SINK, WITH BELL TRAP.FIG. 1335.
SEWER TRAP.FIG. 1336.
SLOP HOPPER, WITH BELL TRAP.

SIZE	INCHES	12 x 12	14 x 14	16 x 16
FIG. 1334. PAINTED	EACH	2.00	2.25	2.50
FIG. 1335. PAINTED	EACH	---	---	2.50

SLOP HOPPER, WITH BELL TRAP.—Fig. 1336.

FIG. 1336. SQUARE PATTERN	EACH	3.50
FIG. 1336. ROUND PATTERN	EACH	3.50

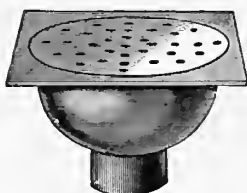


FIG. 1337. CESSPOOL, WITH BELL TRAP.

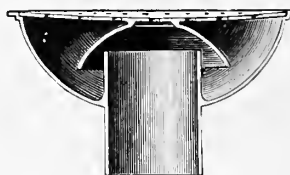


FIG. 1338. SECTIONAL CUT.

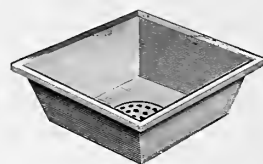


FIG. 1339. HYDRANT CESSPOOL.

CESSPOOLS.—Figs. 1337 and 1338.

SIZE	INCHES	4 x 4	6 x 6	9 x 9	13 x 13
OUTLET	INCHES	1 1/4	1 1/2	3	4
PAINTED	EACH	.50	.75	1.00	2.50

HYDRANT CESSPOOLS.—Fig. 1339.

SIZE	INCHES	12 x 12	14 x 14	16 x 16
DEPTH	INCHES	6	6	6
PAINTED	EACH	1.00	1.15	1.30
GALVANIZED	EACH	1.50	1.75	1.95

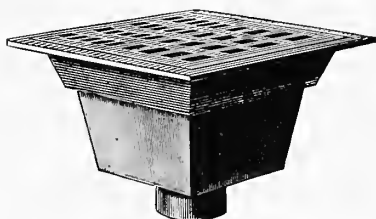


FIG. 1340. EXTRA HEAVY CESSPOOL, WITH BELL TRAP AND GRATING. 4-INCH OUTLET.

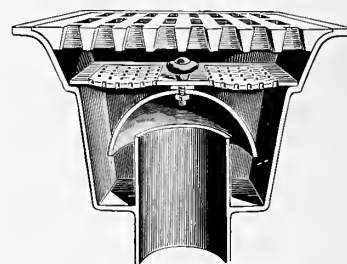


FIG. 1341. SECTIONAL CUT.

SIZE	INCHES	16 x 16	27 x 19 1/2
DEPTH	INCHES	10	14
PAINTED	EACH	4.50	14.00

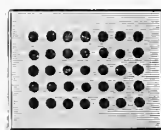


FIG. 1342.

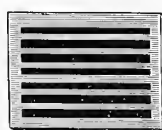


FIG. 1343.

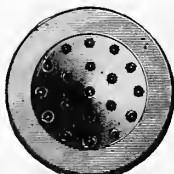


FIG. 1344.

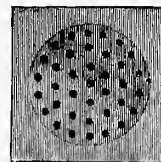


FIG. 1345.



FIG. 1346. VENTILATION PLATE, TO FIT HUB END OF SOIL PIPE.

CESSPOOL PLATES.

SIZE	INCHES	6 x 8	6 x 6
FIGS. 1342 AND 1343	EACH	.50	---
FIGS. 1344 AND 1345	EACH	---	.50

VENTILATION PLATE.—Fig. 1346.

SIZE	INCHES	4	5	6
EACH		.20	.25	.30

CAST-IRON SOIL PIPE AND FITTINGS.



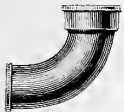
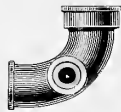
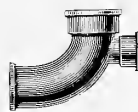
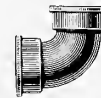
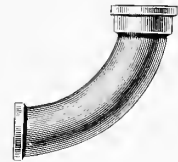
FIG. 1347. SINGLE HUB SOIL PIPE.



FIG. 1348. DOUBLE HUB SOIL PIPE.

SOIL PIPE.—Figs. 1347 and 1348.

SIZE	INCHES	2	3	4	5	6	8	10	12
STANDARD SINGLE HUB	PER FOOT	.24	.30	.40	.50	.60	1.25	2.00	3.00
EXTRA HEAVY SINGLE HUB	PER FOOT	.35	.55	.75	1.00	1.20	2.25	3.00	4.00
STANDARD DOUBLE HUB	PER FOOT	.30	.36	.46	.56	.66	1.45	2.40	---
EXTRA HEAVY DOUBLE HUB	PER FOOT	.41	.61	.81	1.06	1.26	2.55	3.50	---
WEIGHT STANDARD SINGLE HUB	PER FOOT	3	4½	6½	8½	10	18	25	30
WEIGHT EXTRA HEAVY SINGLE HUB	PER FOOT	5½	9½	13	17	20	33½	45	54

FIG. 1349.
QUARTER BEND.FIG. 1350.
QUARTER BEND,
WITH 2-INCH SIDE OUTLET,
EITHER RIGHT OR LEFT SIDE.FIG. 1351.
QUARTER BEND,
HEEL OUTLET.FIG. 1352.
QUARTER BEND,
DOUBLE HUB.FIG. 1353.
LARGE QUARTER BEND.

QUARTER BENDS.

SIZE	INCHES	2	3	4	5	6	8	10	12
FIG. 1349. STANDARD	EACH	.40	.55	.75	1.00	1.20	3.00	4.00	6.00
FIG. 1349. EXTRA HEAVY	EACH	.50	.70	1.10	1.35	1.75	4.00	5.00	8.00
FIG. 1350. STANDARD	EACH	.90	1.05	1.25	1.50	1.70	---	---	---
FIG. 1350. EXTRA HEAVY	EACH	1.00	1.20	1.60	1.85	2.25	---	---	---
FIG. 1351. STANDARD	EACH	.90	1.05	1.25	1.50	1.70	---	---	---
FIG. 1351. EXTRA HEAVY	EACH	1.00	1.20	1.60	1.85	2.25	---	---	---
FIG. 1352. STANDARD	EACH	.70	.85	.95	1.30	1.50	---	---	---
FIG. 1352. EXTRA HEAVY	EACH	.80	1.00	1.40	1.65	2.05	---	---	---
FIG. 1353. STANDARD	EACH	.80	1.25	1.75	3.00	4.00	---	---	---
FIG. 1353. EXTRA HEAVY	EACH	1.25	2.00	2.75	4.00	5.50	---	---	---



FIG. 1354. LONG QUARTER BEND.

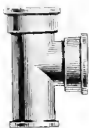
FIG. 1355. LONG QUARTER BEND,
WITH REST.FIG. 1356. LONG QUARTER BEND, WITH
HAND-HOLE, COVER, AND REST.

LONG QUARTER BENDS.

SIZE	INCHES	2	3	4	5	6	8
LENGTH	INCHES	14	15	18	18	18	18
FIG. 1354. STANDARD	EACH	1.10	1.25	1.50	2.25	2.50	5.50
FIG. 1354. EXTRA HEAVY	EACH	1.40	1.80	2.25	3.00	3.50	8.50
FIG. 1355. STANDARD	EACH	1.40	1.90	2.75	3.25	4.00	---
FIG. 1355. EXTRA HEAVY	EACH	1.75	2.50	3.50	4.00	4.75	---
FIG. 1356. STANDARD	EACH	1.65	2.50	3.75	4.50	5.25	---
FIG. 1356. EXTRA HEAVY	EACH	2.10	3.20	4.50	5.25	6.25	---

FIG. 1357.
SIXTH BEND.FIG. 1358.
LONG SIXTH BEND.FIG. 1359.
EIGHTH BEND.FIG. 1360. EIGHTH BEND,
DOUBLE HUB.FIG. 1361.
LONG EIGHTH BEND.FIG. 1362.
SIXTEENTH BEND.**SIXTH, EIGHTH, AND SIXTEENTH BENDS.—Figs. 1357, 1358, 1359, 1360, 1361, and 1362.**

SIZE		INCHES	2	3	4	5	6	8	10	12
FIG. 1357.	STANDARD	EACH	.40	.55	.75	1.00	1.20	3.00	---	---
FIG. 1357.	EXTRA HEAVY	EACH	.50	.70	1.10	1.35	1.75	4.00	---	---
FIG. 1358.	STANDARD	EACH	1.10	1.25	1.50	2.25	2.50	5.50	---	---
FIG. 1358.	EXTRA HEAVY	EACH	1.40	1.80	2.25	3.00	3.50	8.50	---	---
FIG. 1359.	STANDARD	EACH	.40	.55	.75	1.00	1.20	3.00	4.00	6.00
FIG. 1359.	EXTRA HEAVY	EACH	.50	.70	1.10	1.35	1.75	4.00	5.00	8.00
FIG. 1360.	STANDARD	EACH	.70	.85	.95	1.30	1.50	---	---	---
FIG. 1360.	EXTRA HEAVY	EACH	.80	1.00	1.40	1.65	2.05	---	---	---
FIG. 1361.	STANDARD	EACH	---	---	---	---	---	---	---	---
FIG. 1361.	EXTRA HEAVY	EACH	---	---	2.25	---	---	---	---	---
FIG. 1362.	STANDARD	EACH	.40	.55	.75	1.00	1.20	3.00	---	---
FIG. 1362.	EXTRA HEAVY	EACH	.50	.70	1.10	1.35	1.75	4.00	---	---

FIG. 1363.
T BRANCH.FIG. 1364. T BRANCH,
WITH 2-INCH SIDE
OUTLET, RIGHT OR LEFT.FIG. 1365.
LONG T BRANCH.FIG. 1366.
T BRANCH, WITH HAND-
HOLE AND COVER.FIG. 1367.
T BRANCH TAPPED
FOR IRON PIPE.**T BRANCHES.—Figs. 1363 and 1364.**

SIZE		INCHES	2 x 2	3 x 3 TO 3 x 2	4 x 4 TO 4 x 2	5 x 5 TO 5 x 2	6 x 6 TO 6 x 2	8 x 8 TO 8 x 2	10 x 10 TO 10 x 2	12 x 12 TO 12 x 2
FIG. 1363.	STANDARD	EACH	.60	.80	1.20	1.60	2.00	5.00	7.00	12.00
FIG. 1363.	EXTRA HEAVY	EACH	.80	1.25	1.60	2.25	3.25	8.00	11.00	16.00
FIG. 1364.	STANDARD	EACH	1.10	1.30	1.70	2.10	2.50	---	---	---
FIG. 1364.	EXTRA HEAVY	EACH	1.30	1.75	2.10	2.75	3.75	---	---	---

LONG T BRANCHES.—Fig. 1365.

SIZE		INCHES	4 x 4 24 Inches in the Clear.	4 x 4 30 Inches in the Clear.	4 x 4 36 Inches in the Clear.	5 x 4 24 Inches in the Clear.	5 x 4 30 Inches in the Clear.	5 x 4 36 Inches in the Clear.	6 x 4 24 Inches in the Clear.	6 x 4 30 Inches in the Clear.	6 x 4 36 Inches in the Clear.
STANDARD	EACH		2.50	3.00	3.50	3.25	4.00	4.75	4.25	5.25	6.25
EXTRA HEAVY	EACH		3.50	4.75	5.25	4.50	5.50	6.75	6.00	7.25	9.00

T BRANCHES, WITH HAND-HOLE AND COVER.—Fig. 1366.

SIZE		INCHES	2 x 2	3 x 3	4 x 4	5 x 5	6 x 6	8 x 8
STANDARD	EACH		.75	1.00	1.25	1.75	2.25	5.00
EXTRA HEAVY	EACH		1.00	1.50	1.75	2.25	3.00	7.50

T BRANCHES TAPPED FOR IRON PIPE.—Fig. 1367.

SIZE		INCHES	2 x 1½	2 x 2	3 x 2	4 x 2
STANDARD	EACH		.65	.70	1.35	1.50
EXTRA HEAVY	EACH		.80	.90	1.80	1.95



FIG. 1368. SANITARY T BRANCH.

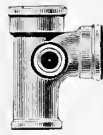


FIG. 1369. SANITARY T BRANCH, WITH 2-INCH SIDE OUTLET, RIGHT OR LEFT.



FIG. 1370. LONG SANITARY T BRANCH.



FIG. 1371. SANITARY T BRANCH, TAPPED FOR IRON PIPE.

SANITARY T BRANCHES.—Figs. 1368 and 1369.

SIZE	INCHES	2 x 2	3 x 3 TO 3 x 2	4 x 4 TO 4 x 2	5 x 5 TO 5 x 2	6 x 6 TO 6 x 2
FIG. 1368. STANDARD	EACH	.60	.80	1.20	1.60	2.00
FIG. 1368. EXTRA HEAVY	EACH	.80	1.25	1.60	2.25	3.25
FIG. 1369. STANDARD	EACH	1.10	1.30	1.70	2.10	2.50
FIG. 1369. EXTRA HEAVY	EACH	1.30	1.75	2.10	2.75	3.75

LONG SANITARY T BRANCHES.—Fig. 1370.

SIZE	INCHES	4 x 4 24 Inches in the Clear.	4 x 4 30 Inches in the Clear.	4 x 4 36 Inches in the Clear.	5 x 4 24 Inches in the Clear.	5 x 4 30 Inches in the Clear.	5 x 4 36 Inches in the Clear.	6 x 4 24 Inches in the Clear.	6 x 4 30 Inches in the Clear.	6 x 4 36 Inches in the Clear.
STANDARD	EACH	2.50	3.00	3.50	3.25	4.00	4.75	4.25	5.25	6.25
EXTRA HEAVY	EACH	3.50	4.75	5.25	4.50	5.50	6.75	6.00	7.25	9.00

SANITARY T BRANCHES TAPPED FOR IRON PIPE.—Fig. 1371.

SIZE	INCHES	2 x 1½	2 x 2	3 x 2	4 x 1½	4 x 2
STANDARD	EACH	.80	.85	1.50	1.60	1.75
EXTRA HEAVY	EACH	1.00	1.10	2.00	2.00	2.15



FIG. 1372. LONG Y BRANCH.



FIG. 1373. Y BRANCH.



FIG. 1374. Y BRANCH, WITH 2-INCH SIDE OUTLET, RIGHT OR LEFT.



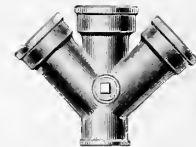
FIG. 1375. Y BRANCH, WITH TRAP SCREW, RIGHT OR LEFT.

LONG Y BRANCHES.—Fig. 1372.

SIZE	INCHES	4 x 4 24 Inches in the Clear.	4 x 4 30 Inches in the Clear.	4 x 4 36 Inches in the Clear.	5 x 4 24 Inches in the Clear.	5 x 4 30 Inches in the Clear.	5 x 4 36 Inches in the Clear.	6 x 4 24 Inches in the Clear.	6 x 4 30 Inches in the Clear.	6 x 4 36 Inches in the Clear.
STANDARD	EACH	2.50	3.00	3.50	3.25	4.00	4.75	4.25	5.25	6.25
EXTRA HEAVY	EACH	3.50	4.75	5.25	4.50	5.50	6.75	6.00	7.25	9.00

Y BRANCHES.—Figs. 1373, 1374, and 1375.

SIZE	INCHES	2 x 2	3 x 3	3 x 3 TO 3 x 2	4 x 4 TO 4 x 2	5 x 5 TO 5 x 2	6 x 6 TO 6 x 2	8 x 8 TO 8 x 2	10 x 10 TO 10 x 2	12 x 12 TO 12 x 2
FIG. 1373. STANDARD	EACH	.60	----	.80	1.20	1.60	2.00	5.00	7.00	12.00
FIG. 1373. EXTRA HEAVY	EACH	.80	----	1.25	1.60	2.25	3.25	8.00	11.00	16.00
FIG. 1374. STANDARD	EACH	1.10	1.30	----	1.70	2.10	2.50	----	----	----
FIG. 1374. EXTRA HEAVY	EACH	1.30	1.75	----	2.10	2.75	3.75	----	----	----
FIG. 1375. STANDARD	EACH	----	----	----	3.20	3.60	4.25	----	----	----
FIG. 1375. EXTRA HEAVY	EACH	----	----	----	3.60	4.25	5.50	----	----	----

FIG. 1376.
DOUBLE Y BRANCH.FIG. 1377.
DOUBLE Y BRANCH, WITH 2-INCH SIDE OUTLET.
RIGHT OR LEFT.FIG. 1378.
DOUBLE Y BRANCH, WITH TRAP SCREW.
RIGHT OR LEFT.**Y BRANCHES.—Figs. 1376, 1377, and 1378.**

SIZE	INCHES	2 x 2	3 x 3 TO 3 x 2	4 x 4 TO 4 x 2	5 x 5 TO 5 x 2	6 x 6 TO 6 x 2	8 x 8 TO 8 x 2	10 x 10 TO 10 x 2
FIG. 1376. STANDARD	EACH	1.00	1.25	1.65	2.25	3.00	6.00	9.00
FIG. 1376. EXTRA HEAVY	EACH	1.25	1.60	2.00	3.00	4.00	9.00	14.00
FIG. 1377. STANDARD	EACH	----	----	2.15	2.75	3.50	----	----
FIG. 1377. EXTRA HEAVY	EACH	----	----	2.50	3.50	4.50	----	----
FIG. 1378. STANDARD	EACH	----	----	3.65	4.25	5.25	----	----
FIG. 1378. EXTRA HEAVY	EACH	----	----	4.00	5.00	6.25	----	----



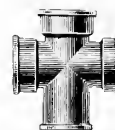
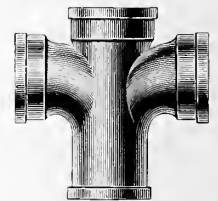
FIG. 1379. HALF Y BRANCH.



FIG. 1380. INVERTED Y BRANCH.

Y BRANCHES.—Figs. 1379 and 1380.

SIZE	INCHES	2 x 2	3 x 3 TO 3 x 2	4 x 4 TO 4 x 2	5 x 5 TO 5 x 2	6 x 6 TO 6 x 2	8 x 8 TO 8 x 2
FIG. 1379. STANDARD	EACH	.60	.80	1.20	1.60	2.00	5.00
FIG. 1379. EXTRA HEAVY	EACH	.80	1.25	1.60	2.25	3.25	8.00
FIG. 1380. STANDARD	EACH	----	----	1.50	----	----	----
FIG. 1380. EXTRA HEAVY	EACH	----	----	2.00	----	----	----

FIG. 1381.
DOUBLE HALF Y BRANCH.FIG. 1382.
DOUBLE ANGLE Y BRANCH.FIG. 1383.
CROSS.FIG. 1384.
SANITARY CROSS.**DOUBLE Y BRANCHES AND CROSSES.**

SIZE	INCHES	2 x 2	3 x 3 TO 3 x 2	4 x 4 TO 4 x 2	5 x 5 TO 5 x 2	6 x 6 TO 6 x 2	8 x 8 TO 8 x 2	10 x 10 TO 10 x 2	12 x 12 TO 12 x 2
FIG. 1381. STANDARD	EACH	1.00	1.25	1.65	2.25	3.00	6.00	----	----
FIG. 1381. EXTRA HEAVY	EACH	1.25	1.60	2.00	3.00	4.00	9.00	----	----
FIG. 1382. STANDARD	EACH	----	----	3.50	4.50	5.75	----	----	----
FIG. 1382. EXTRA HEAVY	EACH	----	----	4.50	5.75	7.25	----	----	----
FIG. 1383. STANDARD	EACH	1.00	1.25	1.65	2.25	3.00	6.00	9.00	14.00
FIG. 1383. EXTRA HEAVY	EACH	1.25	1.60	2.00	3.00	4.00	9.00	14.00	18.00
FIG. 1384. STANDARD	EACH	1.00	1.25	1.65	2.25	3.00	6.00	9.00	14.00
FIG. 1384. EXTRA HEAVY	EACH	1.25	1.60	2.00	3.00	4.00	9.00	14.00	18.00



FIG. 1385. OFFSET.

FIG. 1386. OFFSET,
WITH 2-INCH OUTLET.FIG. 1387. OFFSET INCREASER,
WITH 6-INCH OFFSET.FIG. 1388. OFFSET INCREASER,
TAPPED FOR IRON PIPE,
WITH 6-INCH OFFSET.**OFFSETS.—Fig. 1385.**

SIZE INCHES	2 x 4	2 x 6	2 x 8	2 x 10	2 x 12	3 x 4	3 x 6	3 x 8	3 x 10	3 x 12
STANDARD EACH	.50	.60	.70	.80	.85	.75	.80	.90	.95	1.00
EXTRA HEAVY EACH	.90	1.00	1.10	1.20	1.25	1.10	1.20	1.35	1.40	1.45
SIZE INCHES	4 x 4	4 x 6	4 x 8	4 x 10	4 x 12	4 x 14	4 x 16	4 x 18	4 x 20	5 x 4
STANDARD EACH	.85	1.00	1.15	1.25	1.40	1.65	1.80	2.15	2.25	1.40
EXTRA HEAVY EACH	1.25	1.40	1.50	1.60	1.80	2.00	2.25	2.80	3.00	1.80
SIZE INCHES	5 x 6	5 x 8	5 x 12	5 x 16	6 x 4	6 x 6	6 x 8	6 x 10	6 x 12	----
STANDARD EACH	1.60	1.80	2.00	2.40	2.00	2.25	2.40	2.60	2.75	----
EXTRA HEAVY EACH	2.00	2.25	2.50	3.00	3.00	3.25	3.50	3.75	4.00	----

OFFSETS, WITH 2-INCH OUTLET.—Fig. 1386.

SIZE INCHES	4 x 4	4 x 6	4 x 8	4 x 10	4 x 12	4 x 14	4 x 16	4 x 18	4 x 20
STANDARD EACH	1.35	1.50	1.65	1.75	1.90	2.15	2.30	2.65	2.75
EXTRA HEAVY EACH	1.75	1.90	2.00	2.10	2.30	2.50	2.75	3.30	3.50

OFFSET INCREASERS.—Figs. 1387 and 1388.

SIZE INCHES	1½ x 4	2 x 4	3 x 4	4 x 5	4 x 6	6 x 8
FIG. 1387. EXTRA HEAVY EACH	----	2.00	2.80	3.00	3.25	4.00
FIG. 1388. EXTRA HEAVY EACH	2.10	2.25	----	----	----	----



FIG. 1389. LONG INCREASER.

FIG. 1390. LONG INCREASER,
TAPPED ON END FOR IRON PIPE,
EITHER 1½ OR 2-INCH.FIG. 1391. LONG INCREASER,
TAPPED ON SIDE AND END FOR IRON PIPE,
EITHER 1½ OR 2-INCH.**LONG INCREASERS.—Figs. 1389, 1390, and 1391.**

SIZE INCHES	2 x 4	3 x 4	4 x 5	5 x 6
LENGTH INCHES	26	26	30	36
FIG. 1389 EACH	2.50	2.60	4.25	6.00
FIG. 1390 EACH	2.50	----	----	----
FIG. 1391 EACH	3.35	----	4.90	----

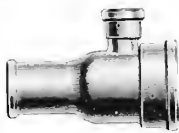


FIG. 1392.
INCREASER AND VENT BRANCH,
WITH STRAIGHT SIDE OUTLET.

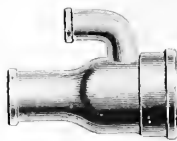


FIG. 1393.
INCREASER AND VENT BRANCH,
WITH BENT SIDE OUTLET.

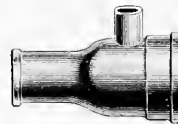


FIG. 1394.
INCREASER AND VENT BRANCH,
TAPPED FOR IRON PIPE.



FIG. 1395.
ROOF PLATE.

INCREASERS AND VENT BRANCHES.— Figs. 1392, 1393, and 1394.

SIZE	INCHES	4 x 6	4 x 6	4 x 6
SIZE OUTLET	INCHES	1½	2	3
FIG. 1392	EACH	---	3.00	3.75
FIG. 1393	EACH	---	3.25	---
FIG. 1394	EACH	3.50	3.65	4.25

ROOF PLATES.— Fig. 1395.

SIZE	INCHES	4	5	6	8
EACH		.50	1.00	1.25	2.00



FIG. 1396.
INCREASER.



FIG. 1397.
INCREASER, TAPPED
FOR IRON PIPE.



FIG. 1398.
SHORT INCREASER,
TAPPED FOR IRON PIPE.



FIG. 1399.
VENTILATING BRANCH.



FIG. 1400.
REDUCER.

INCREASERS.— Figs. 1396, 1397, and 1398.

SIZE	INCHES	1½ x 4	2 x 4	2 x 3	2 x 4	2 x 5	3 x 4	3 x 5	4 x 5	4 x 6	6 x 8
FIG. 1396. STANDARD	EACH	---	---	.70	.75	.80	.90	1.00	1.15	1.25	2.00
FIG. 1396. EXTRA HEAVY	EACH	---	---	1.00	1.10	1.15	1.40	1.50	1.60	1.75	2.75
FIG. 1397. EXTRA HEAVY	EACH	1.35	1.45	---	---	---	---	---	---	---	---
FIG. 1398. EXTRA HEAVY	EACH	1.20	1.20	---	---	---	---	---	---	---	---

VENTILATING BRANCHES.— Fig. 1399.

SIZE	INCHES	2 x 2	3 x 2	4 x 2	5 x 2	5 x 4	6 x 4	8 x 4	8 x 5
STANDARD	EACH	.80	1.25	1.50	2.00	2.00	3.00	6.00	6.00
EXTRA HEAVY	EACH	1.25	1.75	2.00	2.75	2.75	4.00	8.50	8.50

REDUCERS.— Fig. 1400.

SIZE	INCHES	3 x 2	4 x 2	5 x 2 5 x 3 5 x 4	6 x 2 6 x 3 6 x 4	8 x 3 8 x 4 8 x 5 8 x 6	10 x 6 10 x 8	12 x 6 12 x 8 12 x 10
STANDARD	EACH	.45	.50	.70	.80	1.60	2.50	5.00
EXTRA HEAVY	EACH	.55	.60	.80	.90	2.20	4.00	7.00



FIG. 1401. VENT CAP.



FIG. 1402. DOUBLE HUB.



FIG. 1403. SINGLE HUB.



FIG. 1404. STRAIGHT SLEEVE.



FIG. 1405. PLUG.

VENTILATING CAPS.—Fig. 1401.

SIZE	INCHES	2	3	4	5	6	4 x 8	4 x 12	4 x 18
STANDARD	EACH	.40	.60	.80	1.10	1.50	.80	1.25	1.50
EXTRA HEAVY	EACH	.50	.75	1.25	2.50	3.50	----	----	----
GALVANIZED	EACH	.80	1.20	1.60	2.00	2.75	----	----	----

HUBS, SLEEVES, AND PLUGS.—Figs. 1402, 1403, 1404, and 1405.

SIZE	INCHES	2	3	4	5	6	8	10	12
FIG. 1402. STANDARD	EACH	.30	.45	.65	.75	.80	1.50	2.50	5.00
FIG. 1402. EXTRA HEAVY	EACH	.40	.55	.75	.90	1.15	3.50	4.00	7.00
FIG. 1403. STANDARD	EACH	.25	.35	.40	.60	.75	1.40	2.50	5.00
FIG. 1403. EXTRA HEAVY	EACH	.35	.40	.50	.75	1.00	3.00	4.00	7.00
FIG. 1404. STANDARD	EACH	.30	.45	.65	.75	.80	1.50	2.50	5.00
FIG. 1404. EXTRA HEAVY	EACH	.40	.55	.75	.90	1.15	3.50	4.00	7.00
FIG. 1405. STANDARD	EACH	.15	.25	.30	.35	.50	1.20	2.00	3.00
FIG. 1405. EXTRA HEAVY	EACH	.25	.35	.40	.50	.65	1.50	3.00	4.00



FIG. 1406. THIMBLE.



FIG. 1407. PIPE REST.



FIG. 1408. PIPE HOOK.

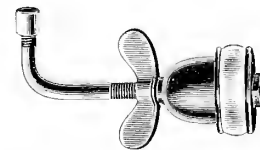


FIG. 1409. SOIL-PIPE TEST PLUG.

THIMBLES, PIPE RESTS, AND HOOKS.—Figs. 1406, 1407, and 1408.

SIZE	INCHES	2	3	4	5	6	8	10
FIG. 1406. PLAIN	EACH	.15	.25	.30	.35	.45	----	----
FIG. 1406. GALVANIZED	EACH	.25	.40	.50	.60	.75	----	----
FIG. 1407. STANDARD	EACH	.30	.40	.50	.60	.70	1.10	1.75
FIG. 1407. EXTRA HEAVY	EACH	.40	.55	.65	.80	1.00	1.75	2.50
FIG. 1408. PIPE HOOKS	EACH	.08	.10	.12	.15	.20	.40	----

SOIL-PIPE TEST PLUGS.—Fig. 1409.

SIZE	INCHES	2	3	4	5	6	8
EACH		1.00	1.25	1.50	2.00	2.50	4.00

GREENHOUSE PIPE AND FITTINGS.

TESTED AND GUARANTEED.



FIG. 1410.

GREENHOUSE WATER PIPE.—Fig. 1410.

SIZE	2	3	4	5	6	8
PER FOOT .....	.24	.30	.40	.50	.60	1.25

All lengths 5 feet long.



FIG. 1411. RETURN BEND.

FIG. 1412. RETURN BEND,
DOUBLE HUB.FIG. 1413. RETURN BEND,
SPIGOT OUTLET.FIG. 1414. RETURN BEND,
HUB OUTLET.**RETURN BENDS FOR 4-INCH PIPE.**

FIGURE	1411	1412	1413	1414
EACH	1.25	1.50	1.75	1.75

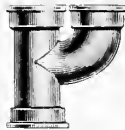


FIG. 1415. H BRANCH.

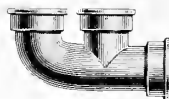


FIG. 1416. DOUBLE ELBOW.



FIG. 1417. TRIPLE ELBOW.

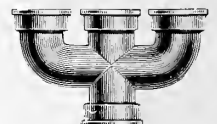


FIG. 1418. THREE-WAY ELBOW.

BRANCH FITTINGS FOR 4-INCH PIPE.

FIGURE	1415	1416	1417	1418
EACH	1.75	2.00	2.75	2.75

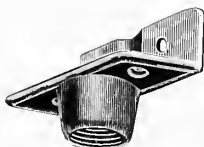


FIG. 1419. ROOF PLATE.



FIG. 1420. POST PLATE.

FIG. 1421. 4-INCH
BUTTERFLY VALVE.FIG. 1422. 4-INCH
GREENHOUSE VALVE.**ROOF AND POST PLATES.—Figs. 1419 and 1420.**

SIZE	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
ROOF AND POST PLATE PER SET	.85	1.00	1.25

BUTTERFLY AND GREENHOUSE VALVES.

FIGURE	1421	1422
EACH	3.50	6.00

SOIL PIPE FITTINGS.

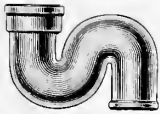


FIG. 1423. S TRAP.

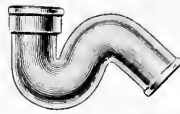


FIG. 1424. THREE-QUARTER S TRAP.

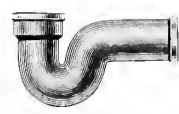


FIG. 1425. HALF S TRAP.

PLAIN TRAPS.—Figs. 1423, 1424, and 1425.

SIZE	INCHES	2	3	4	5	6
STANDARD	EACH	.80	1.25	1.75	3.00	4.00
EXTRA HEAVY	EACH	1.25	2.00	2.75	4.00	5.50

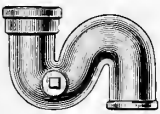


FIG. 1426. S TRAP, WITH BRASS SCREW.

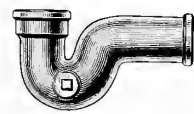
FIG. 1427. THREE-QUARTER S TRAP,
WITH BRASS SCREW.

FIG. 1428. HALF S TRAP, WITH BRASS SCREW.

TRAPS WITH BRASS TRAP SCREW.—Figs. 1426, 1427, and 1428.

SIZE	INCHES	2	3	4	5	6
STANDARD	EACH	3.30	3.75	4.25	5.50	6.50
EXTRA HEAVY	EACH	3.75	4.50	5.25	6.50	8.00



FIG. 1429. S TRAP, WITH VENT.



FIG. 1430. THREE-QUARTER S TRAP, WITH VENT.

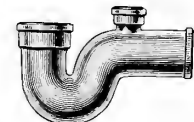
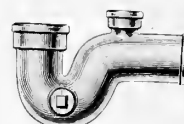


FIG. 1431. HALF S TRAP, WITH VENT.

TRAPS WITH HUB VENT.—Figs. 1429, 1430, and 1431.

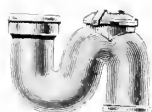
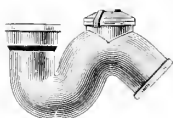
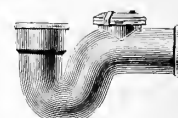
SIZE	INCHES	2	3	4	5	6
STANDARD	EACH	1.30	1.75	2.25	3.50	4.50
EXTRA HEAVY	EACH	1.75	2.50	3.25	4.50	6.00

SOIL PIPE FITTINGS.

FIG. 1432. S TRAP,
WITH VENT AND BRASS SCREW.FIG. 1433. THREE-QUARTER S TRAP,
WITH VENT AND BRASS SCREW.FIG. 1434. HALF S TRAP,
WITH VENT AND BRASS SCREW.

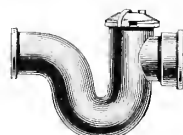
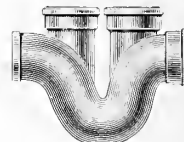
TRAPS WITH TRAP SCREW AND HUB VENT.—Figs. 1432, 1433, and 1434.

SIZE	INCHES	2	3	4	5	6
STANDARD	EACH	3.80	4.25	4.75	6.00	7.00
EXTRA HEAVY	EACH	4.25	5.00	5.75	7.00	8.50

FIG. 1435. S TRAP, WITH HAND-HOLE
AND COVER.FIG. 1436. THREE-QUARTER S TRAP,
WITH HAND-HOLE AND COVER.FIG. 1437. HALF S TRAP, WITH HAND-HOLE
AND COVER.

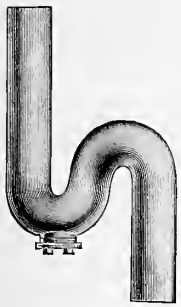
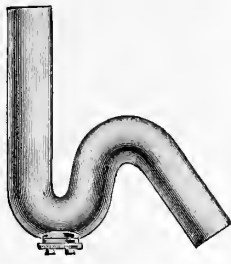
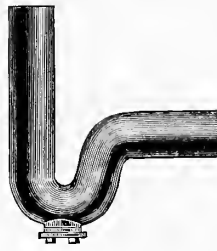
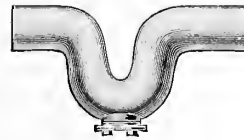
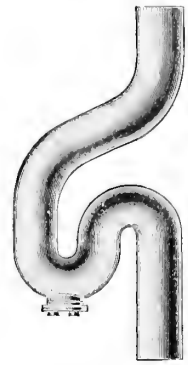
TRAPS WITH HAND-HOLE AND COVER.—Figs. 1435, 1436, and 1437.

SIZE	INCHES	2	3	4	5	6
STANDARD	EACH	.80	1.25	1.75	3.00	4.00
EXTRA HEAVY	EACH	1.25	2.00	2.75	4.00	5.50

FIG. 1438. RUNNING TRAP, WITH
HUB VENT.FIG. 1439. RUNNING TRAP, WITH HAND-HOLE
AND COVER.FIG. 1440. RUNNING TRAP, WITH
DOUBLE HUB VENT.

RUNNING TRAPS.—Figs. 1438, 1439, and 1440.

SIZE	INCHES	2	3	4	5	6	8	10	12
FIG. 1438. STANDARD	EACH	---	---	2.50	3.75	4.75	9.75	---	---
FIG. 1438. EXTRA HEAVY	EACH	---	---	3.50	4.75	6.25	12.75	20.75	30.75
FIG. 1439. STANDARD	EACH	.80	1.25	1.75	3.00	4.00	9.00	---	---
FIG. 1439. EXTRA HEAVY	EACH	1.25	2.00	2.75	4.00	5.50	12.00	---	---
FIG. 1440. STANDARD	EACH	---	---	3.25	4.50	5.50	12.50	---	---
FIG. 1440. EXTRA HEAVY	EACH	---	---	4.25	5.50	7.00	15.50	23.50	33.50

FIG. 1441.
S TRAP.FIG. 1442.
THREE-QUARTER S TRAP.FIG. 1443.
HALF S OR P TRAP.FIG. 1444.
RUNNING TRAP.FIG. 1445.
BAG TRAP.

LEAD TRAPS.

SIZE	INCHES	$1\frac{1}{4}$	$1\frac{1}{2}$	2	3	4
FIG. 1441	EACH	.50	.60	.95	1.70	1.90
FIG. 1442	EACH	.50	.60	.95	1.70	1.90
FIG. 1443	EACH	.40	.50	.80	1.30	1.45
FIG. 1444	EACH	.40	.50	.80	1.30	1.45
FIG. 1445	EACH	.65	.80	1.25	---	---

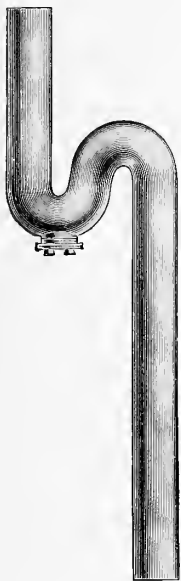


FIG. 1446. LONG OUTLET S TRAP.

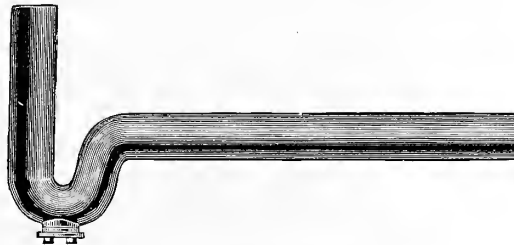


FIG. 1447. LONG OUTLET HALF S TRAP.

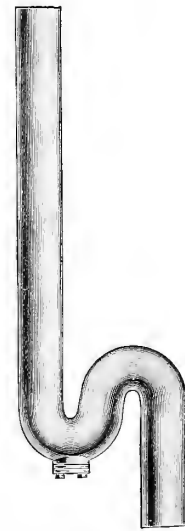


FIG. 1448. LONG INLET S TRAP.

LONG LEAD TRAPS.

SIZE	INCHES	$1\frac{1}{4}$	$1\frac{1}{2}$	2	4
FIG. 1446	EACH	.80	1.00	1.45	2.20
FIG. 1447	EACH	.65	.80	1.20	1.70
FIG. 1448	EACH	.80	1.00	1.45	2.20



FIG. 1450. SHORT LEAD BEND.



FIG. 1451. SHORT LEAD BEND EXTENDED.



FIG. 1452. 45° LEAD BEND.

SHORT LEAD BENDS.—Fig. 1450.

SIZE	INCHES	1 1/4	1 1/2	2	3	4
LENGTH, CENTER TO END	INCHES	4 x 7	4 x 7	5 x 8	5 x 9	6 x 10
EACH		.20	.30	.40	.65	.88

SHORT LEAD BENDS EXTENDED.—Fig. 1451.

SIZE	INCHES	1 1/4	1 1/2	2	3	4
LENGTH, CENTER TO END	INCHES	4 x 12	4 x 12	5 x 12	5 x 12	6 x 12
EACH		.26	.35	.50	.80	1.00
EXTRA LONG, CENTER TO END	INCHES	4 x 15	4 x 15	4 x 15	5 x 15	6 x 15
EACH		.40	.50	.60	1.00	1.20

We can furnish these Bends in 4-inch either 18 or 20 inches long.

45° LEAD BENDS.—Fig. 1452.

SIZE	INCHES	4	4	4	4	4	4
LENGTH, CENTER TO END	INCHES	6 x 10	6 x 12	6 x 15	6 x 18	10 x 10	8 x 15
EACH		.85	1.00	1.10	1.30	1.10	1.30

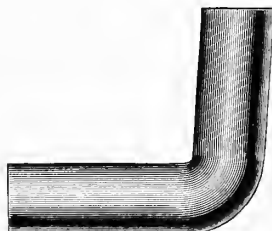


FIG. 1453. LONG LEAD BEND



FIG. 1454. EXTENDED LONG LEAD BEND.

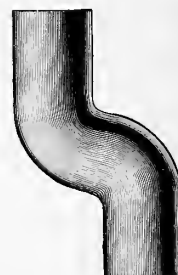


FIG. 1455. LEAD OFFSET.

LONG LEAD BENDS.—Figs. 1453 and 1454.

SIZE	INCHES	1 1/4	1 1/2	2	3	4	4	4	4
LENGTH, CENTER TO END	INCHES	7 x 7	7 x 7	8 x 8	9 x 9	10 x 10	8 x 10	8 x 12	8 x 15
EACH		.25	.35	.55	.90	1.10	1.00	1.10	1.40

LEAD OFFSETS.—Fig. 1455.

SIZE	INCHES	2	2	3	3	4	4
TO OFFSET	INCHES	4	6	4	6	4	6
EACH		.50	.75	1.00	.60	.90	1.10

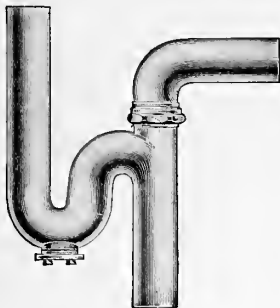


FIG. 1456. LEAD S TRAP,
WITH SHORT VENT.

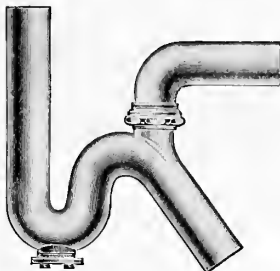


FIG. 1457. LEAD THREE-QUARTER S TRAP,
WITH SHORT VENT.

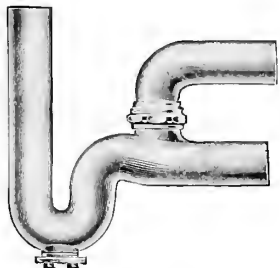


FIG. 1458. LEAD HALF S TRAP,
WITH SHORT VENT.

LEAD TRAPS, WITH SHORT VENT.

SIZE	INCHES	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
FIG. 1456	EACH	.90	1.10	1.60
FIG. 1457	EACH	.90	1.10	1.60
FIG. 1458	EACH	.80	1.00	1.50

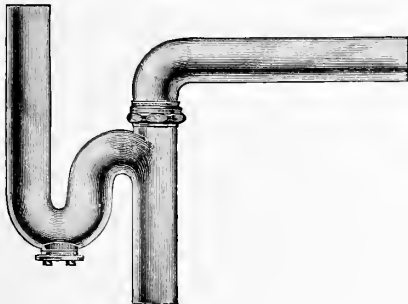


FIG. 1459. S TRAP, WITH PATENT VENT 12 INCHES LONG.

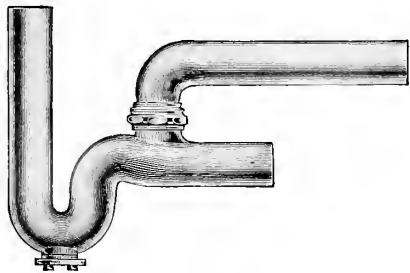


FIG. 1460. HALF S TRAP, WITH PATENT VENT 12 INCHES LONG.

LEAD TRAPS, WITH PATENT LONG VENT.

SIZE	INCHES	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
FIG. 1459	EACH	1.20	1.45	2.10
FIG. 1460	EACH	1.10	1.35	2.00

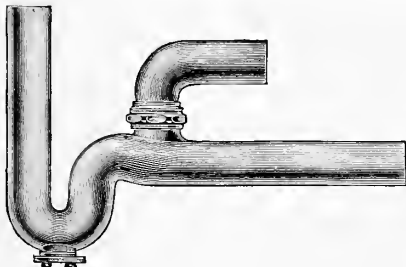


FIG. 1461. LEAD HALF S TRAP, WITH SHORT VENT
AND EXTENDED OUTLET.

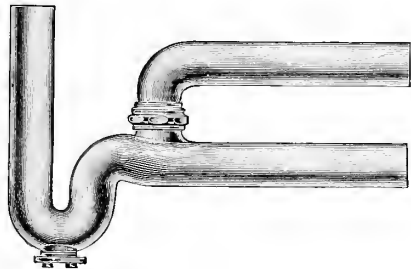


FIG. 1462. LEAD HALF S TRAP, WITH PATENT 12-INCH LONG
VENT AND EXTENDED OUTLET.

LEAD HALF S TRAPS.

SIZE	INCHES	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
FIG. 1461	EACH	1.10	1.45	2.10
FIG. 1462	EACH	1.25	1.50	2.10

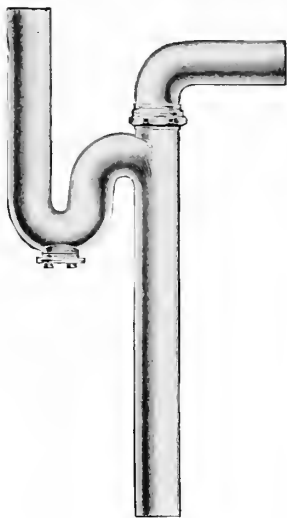


FIG. 1465. LONG S TRAP, WITH SHORT VENT COUPLING.

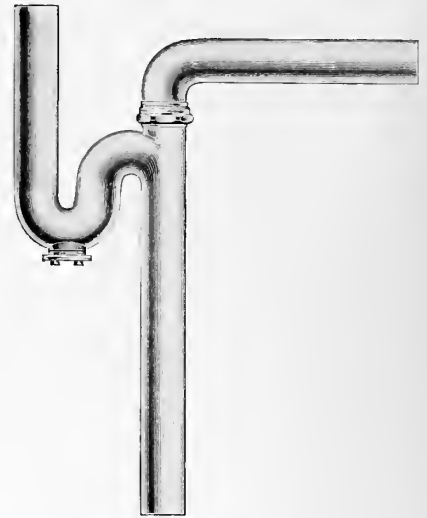


FIG. 1466. LONG S TRAP, WITH EXTENDED VENT 12 INCHES LONG.

LONG S TRAPS.

SIZE	INCHES	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
FIG. 1465	EACH	1.20	1.50	2.10
FIG. 1466	EACH	1.50	1.85	2.60

FIG. 1467.
PLAIN TRAP
SCREW.FIG. 1468.
STRAIGHT
VENT.FIG. 1469.
45° BENT
VENT.FIG. 1470.
1/4-BEND
VENT.FIG. 1471.
PROJECTING
FLANGE.FIG. 1472.
PROJECTING
FLANGE STRAIGHT
VENT.FIG. 1473.
PROJECTING
FLANGE
45° VENT.FIG. 1474.
PROJECTING
FLANGE
1/4-BEND VENT.DRUM TRAPS, WITH BRASS TRAP SCREWS: 1 $\frac{1}{2}$ -INCH VENT COUPLINGS.

FIGURE	1467	1468	1469	1470	1471	1472	1473	1474
3 INCHES DIAMETER, 8 INCHES LONG	EACH .90	1.25	1.30	1.30	1.05	1.40	1.45	1.45
4 INCHES DIAMETER, 8 $\frac{1}{2}$ INCHES LONG	EACH 1.10	1.50	1.55	1.55	1.20	1.70	1.75	1.75
5 INCHES DIAMETER, 10 INCHES LONG	EACH 2.00	2.40	2.45	2.45	---	---	---	---
6 INCHES DIAMETER, 10 INCHES LONG	EACH 2.75	3.15	3.20	3.20	---	---	---	---

DRUM TRAPS, WITH NICKEL-PLATED TRAP SCREWS: 1 $\frac{1}{2}$ -INCH VENT COUPLINGS.

FIGURE	1467	1468	1469	1470	1471	1472	1473	1474
3 INCHES DIAMETER	EACH 1.10	1.50	1.55	1.55	1.25	1.65	1.70	1.70
4 INCHES DIAMETER	EACH 1.30	1.80	1.85	1.85	1.50	2.10	2.15	2.15
5 INCHES DIAMETER	EACH 2.20	2.70	2.75	2.75	---	---	---	---
6 INCHES DIAMETER	EACH 3.00	3.45	3.50	3.50	---	---	---	---

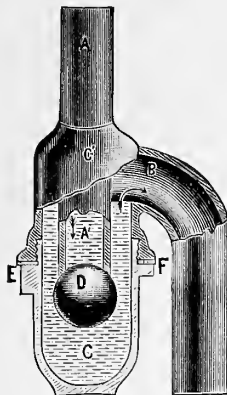


FIG. 1475. FULL S TRAP.

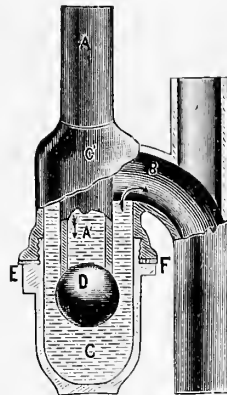


FIG. 1476. FULL S TRAP, WITH VENT.

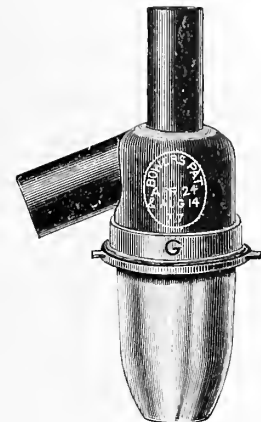


FIG. 1477. HALF S TRAP.

BOWER TRAPS.—Figs. 1475, 1476, and 1477.

STYLE		S.		Half S.		Running.		S. with Vent.		Half S. with Vent.	
SIZE	INCHES	1 1/4	1 1/2	1 1/4	1 1/2	1 1/4	1 1/2	1 1/4	1 1/2	1 1/4	1 1/2
GLASS CUP	EACH	1.50	1.88	1.45	1.80	1.55	1.90	1.60	2.03	1.55	1.95
LEAD CUP	EACH	1.70	2.13	1.65	2.05	1.75	2.15	1.80	2.28	1.75	2.20
BRASS CUP	EACH	1.90	2.38	1.85	2.30	1.95	2.40	2.00	2.53	1.95	2.45
BRASS CUP, NICKEL-PLATED	EACH	2.05	2.58	2.00	2.50	2.10	2.60	2.15	2.73	2.10	2.65

These Traps have Lead Body with Brass Screw for Cup. Traps with Glass Cup will be sent unless otherwise ordered.

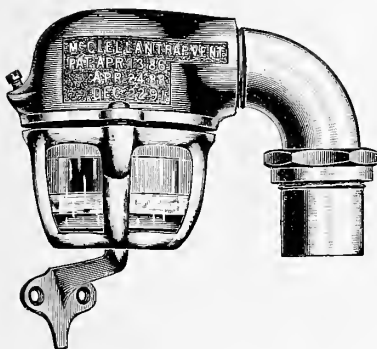


FIG. 1478. McCLELLAN ANTI-SIPHON TRAP VENT.



FIG. 1479. COMBINATION SOLDERING NIPPLE.

McCLELLAN ANTI-SIPHON TRAP VENTS.—Fig. 1478.

SIZE	INCHES	1 1/4	1 1/2
PLAIN IRON	EACH	2.70	4.10
BRASS, NICKEL-PLATED	EACH	5.50	8.25

The quantity of Mercury required is packed with each Vent.

COMBINATION SOLDERING NIPPLES.—Fig. 1479.

LENGTH	INCHES	4	6	8	10	12	14	16	18	20	24
1-INCH	EACH	.23	.25	.30	.35	.40	.45	.55	.60	.65	.75
1 1/4-INCH	EACH	.28	.30	.35	.40	.45	.50	.55	.60	.65	.75
1 1/2-INCH	EACH	.36	.40	.45	.50	.55	.60	.65	.70	.75	.85
2-INCH	EACH	.46	.50	.55	.60	.65	.70	.75	.80	.85	.95

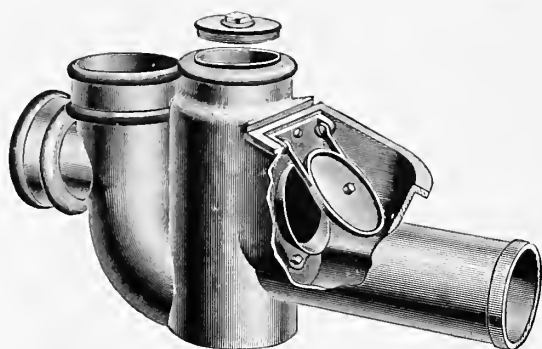


FIG. 1480. IRON SEWER TRAP.

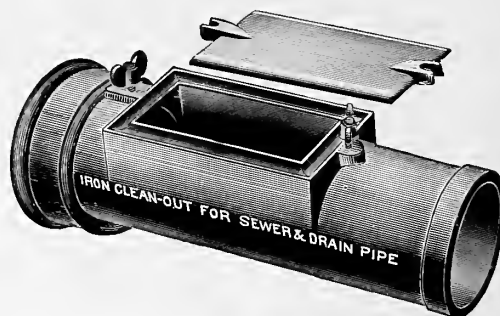


FIG. 1481. IRON CLEAN-OUT FOR SEWER AND DRAIN PIPE.

IRON SEWER TRAPS AND CLEAN-OUTS.—Figs. 1480 and 1481.

SIZE	INCHES	2	3	4	5	6	8	9	10
FIG. 1480. FOR IRON SOIL PIPE	EACH	----	----	11.00	14.00	15.00	51.00	----	75.00
FIG. 1480. FOR SEWER PIPE	EACH	----	----	----	----	15.50	----	75.00	----
FIG. 1481. FOR STANDARD SOIL PIPE	EACH	1.00	1.35	1.75	2.75	3.75	----	----	----
FIG. 1481. FOR EXTRA HEAVY SOIL PIPE	EACH	1.50	2.50	3.50	5.00	6.00	10.00	----	15.00

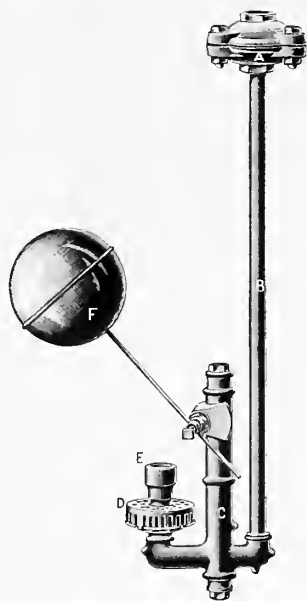


FIG. 1482. CLIMAX DRAINER, WITH AUTOMATIC ATTACHMENT.

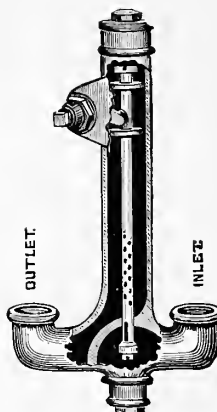


FIG. 1483. SECTIONAL VIEW OF DRAINER VALVE.



FIG. 1484. CLIMAX DRAINER, WITHOUT AUTOMATIC ATTACHMENT.

CLIMAX DRAINERS.—Figs. 1482 and 1484.

NUMBER		1	2	3	4	5	6
CAPACITY	GALLONS PER HOUR	50	100	150	200	275	350
WITH AUTOMATIC MOVEMENT	EACH	25.00	40.00	55.00	80.00	110.00	160.00
WITHOUT AUTOMATIC MOVEMENT	EACH	15.00	25.00	35.00	50.00	70.00	100.00

The capacity given above is based on a pressure of from 15 to 20 pounds, and on a lift of from 6 to 7 feet. The capacity depends entirely on the amount of water-pressure obtainable and lift.

The Climax Cellar Drainer is made for draining Cellars, Wheel Pits, Furnace Pits, etc., at the least possible expense and in a permanent and positively satisfactory manner. It is also desirable and largely used for removing waste-water from kitchens below level of sewer and removing drippings from ice boxes, and for any purpose where it is necessary to remove water economically from one level to a higher one.

RANGE BOILERS.

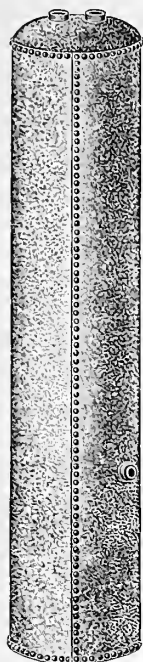


FIG. 1485.
GALVANIZED IRON RIVETED
BOILER.

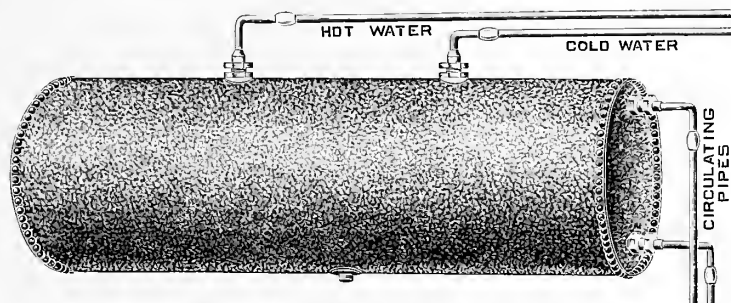


FIG. 1486.
GALVANIZED IRON HORIZONTAL BOILER.



FIG. 1487.
GALVANIZED IRON PATENTED
COLD WELD BOILER.

RANGE BOILERS.—Figs. 1485, 1486, and 1487.

CAPACITY GALLONS	18	21	24	27	28	30	32	35	36	40	42	47	48
DIAMETER INCHES	12	12	14	12	14	12	14	13	14	14	16	16	14
HEIGHT FEET	3	3½	3	4½	3½	5	4	5	4½	5	4	4½	6
EACH	14.50	15.50	19.00	18.50	20.25	19.00	21.00	21.00	21.50	24.00	26.00	30.00	30.00
AVERAGE WEIGHT . . . POUNDS	47	49	57	66	66	72	72	76	112	85	95	102	102
CAPACITY GALLONS	52	53	63	66	79	82	98	100	120	120	144	168	192
DIAMETER INCHES	16	18	16	18	18	20	20	22	22	24	24	24	24
HEIGHT FEET	5	4	6	5	6	5	6	5	6	5	6	7	8
EACH	31.00	31.50	38.00	38.00	44.00	45.50	61.50	63.50	74.00	72.50	103.00	120.00	132.00
AVERAGE WEIGHT . . . POUNDS	119	119	146	150	171	192	210	220	265	265	332	348	391

Extra Heavy Boilers, same list as Standard. Note Discount Sheet for additional cost.

For Boiler Stands and Brackets, see page 371.

RANGE BOILERS.

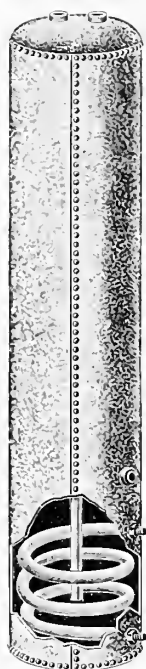


FIG. 1488. GALVANIZED IRON BOILER, WITH COIL.

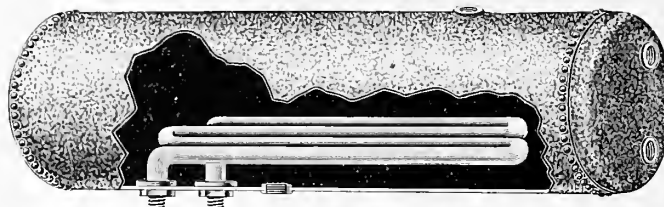


FIG. 1489. GALVANIZED IRON HORIZONTAL BOILER, WITH COIL, BOTTOM CONNECTIONS.

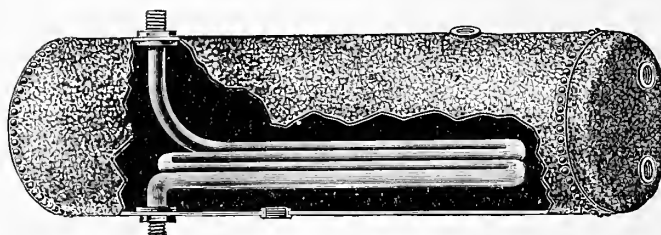


FIG. 1490. GALVANIZED IRON HORIZONTAL BOILER, WITH COIL, BOTTOM AND TOP CONNECTIONS.

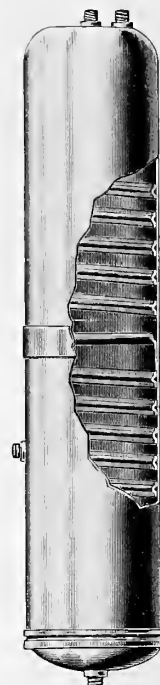


FIG. 1491. SEAMLESS COPPER BOILER.

GALVANIZED IRON RANGE BOILERS, WITH COIL.—Figs. 1488, 1489, and 1490.

CAPACITY	GALLONS	30	40	52	66	82	100	120	144	168	192
FIG. 1488. WITH 1-INCH GALVANIZED IRON PIPE COIL		23.00	30.00	34.00	42.00	48.00	66.00	78.00	105.00	120.00	140.00
FIG. 1488. WITH 1-INCH COPPER COIL		32.00	37.00	45.00	59.00	67.00	86.00	96.00	130.00	144.00	160.00
FIG. 1489. WITH 1-INCH GALVANIZED IRON PIPE COIL		23.00	30.00	34.00	42.00	48.00	66.00	78.00	105.00	120.00	140.00
FIG. 1489. WITH 1-INCH COPPER COIL		40.00	48.00	56.00	72.00	82.00	104.00	120.00	160.00	176.00	184.00
FIG. 1490. WITH 1-INCH GALVANIZED IRON PIPE COIL		23.00	30.00	34.00	42.00	48.00	66.00	78.00	105.00	120.00	140.00
FIG. 1490. WITH 1-INCH COPPER COIL		40.00	48.00	56.00	72.00	82.00	104.00	120.00	160.00	176.00	184.00

SEAMLESS COPPER BOILERS.—Fig. 1491.

CAPACITY	GALLONS	30	40	50	60
EACH		30.00	40.00	50.00	60.00

Seamless Copper Boilers are guaranteed not to collapse, and to stand a pressure of 200 pounds.

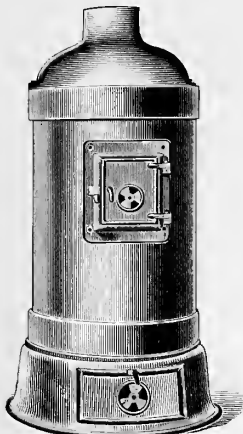


FIG. 1492. TRIUMPH WATER HEATER, WITH PLAIN HOOD.

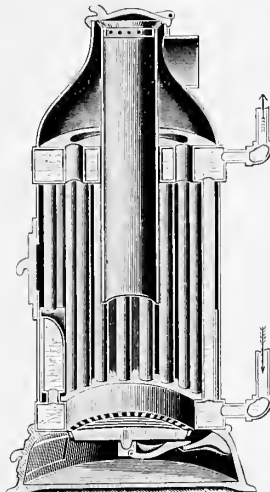


FIG. 1493. SECTIONAL VIEW.

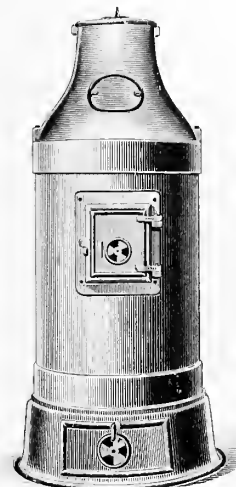


FIG. 1494. TRIUMPH WATER HEATER, WITH MAGAZINE HOOD.

TRIUMPH HEATERS.—Figs. 1492 and 1494.

NUMBER		0	0½	1	2	3	4	5	6
FIG. 1492. PLAIN HOOD	EACH	25.00	30.00	40.00	50.00	75.00	100.00	145.00	175.00
FIG. 1494. MAGAZINE HOOD	EACH	28.00	33.00	45.00	55.00	85.00	110.00	155.00	185.00
DIAMETER	INCHES	12	12	14	16	21	21	30	30
HEIGHT OVER ALL	INCHES	31	35	48	48	55	68	70	70
HEATING CAPACITY PER HOUR	GALLONS	90	120	150	180	350	500	750	950
NUMBER OF OUTLETS AND SIZE	INCHES	2-1	2-1	2-1½	2-1½	3-1½	3-2	2-3	2-3
NUMBER OF INLETS AND SIZE	INCHES	2-1	2-1	2-1½	2-1½	3-1½	3-2	2-3	2-3

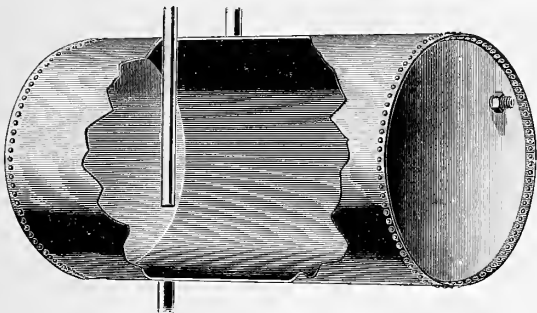


FIG. 1495. PLAIN TANK.

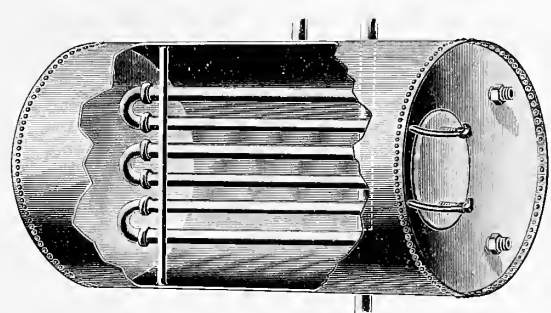


FIG. 1496. TANK WITH STEAM COIL.

PLAIN STEEL TANKS.—Fig. 1495.

NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LENGTH	5	5	5	6	6	6	6	8	8	8	9	9	9	10	12	14
DIAMETER	20	24	30	24	30	36	42	30	36	42	30	36	42	42	42	42
APPROXIMATE W.T. LBS.	210	260	445	345	490	600	850	600	850	1000	660	890	1200	1300	1500	1800
CAPACITY	85	120	180	140	220	320	425	300	425	575	332	470	650	750	875	1010
EACH	40.00	55.00	80.00	65.00	85.00	95.00	125.00	95.00	125.00	150.00	100.00	130.00	160.00	165.00	190.00	200.00

STEEL TANKS WITH STEAM COIL.—Fig. 1496.

NUMBER	0½	1	2	3	4	5	6
LENGTH	5	6	5	6	9	10	13
DIAMETER	24	24	30	36	36	42	42
APPROXIMATE WEIGHT	350	400	510	760	1170	1550	1900
CAPACITY	120	142	180	320	470	750	935
EACH	83.00	89.00	115.00	148.00	185.00	235.00	270.00

We make these Tanks either Vertical or Horizontal.

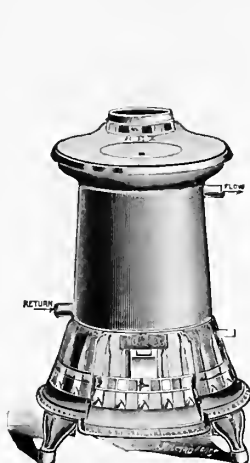


FIG. 1497. Nos. 211, 213, 215.

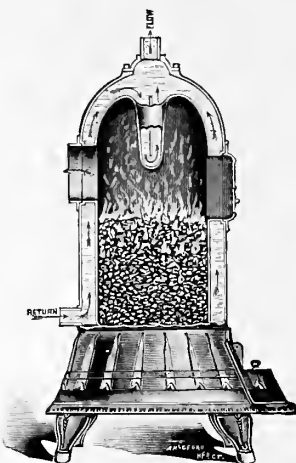


FIG. 1498. SECTIONAL VIEW.

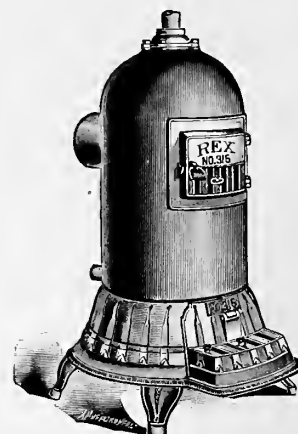


FIG. 1499. Nos. 313, 315, 317.

REX HOT-WATER HEATERS.—Figs. 1497 and 1499.

NUMBER		211	213	215	313	315	317
DIAMETER GRATE	INCHES	11	13	15	13	15	17
HEIGHT	INCHES	33	35	37	44	48	52
DIRECT RADIATION	SQUARE FEET	75	110	160	150	220	300
HEATING CAPACITY PER HOUR	GALLONS	100	140	200	175	250	350
FLows AND RETURNS TAPPED	INCHES	1½	1½	2	2	2	2½
EACH		40.00	50.00	67.50	68.00	82.00	100.00

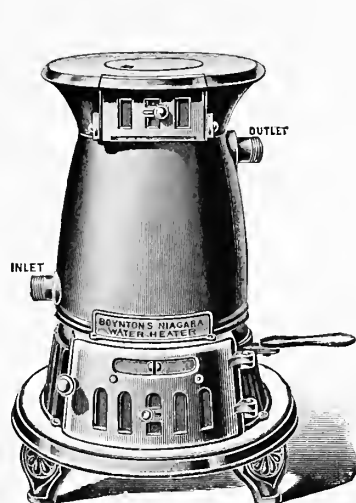


FIG. 1500. Nos. 14 AND 18.

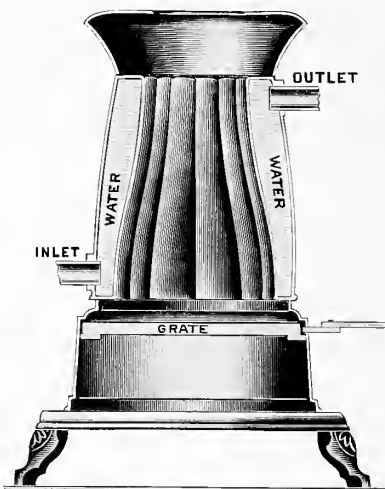


FIG. 1501. SECTIONAL VIEW.

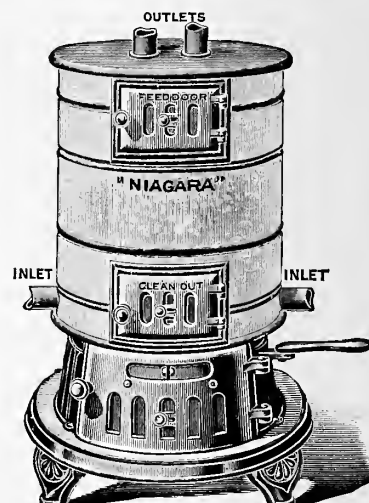


FIG. 1502. No. 118.

NIAGARA WATER HEATERS.—Figs. 1500 and 1502.

NUMBER		14	18	118
DIAMETER GRATE	INCHES	12	14	14
HEIGHT	INCHES	31½	36	39
DIRECT RADIATION	SQUARE FEET	150	200	250
HEATING CAPACITY PER HOUR	GALLONS	75	100	125
FLows AND RETURNS TAPPED	INCHES	1½	2	2
DIAMETER SMOKE PIPE	INCHES	6	7	6
EACH		45.00	60.00	90.00

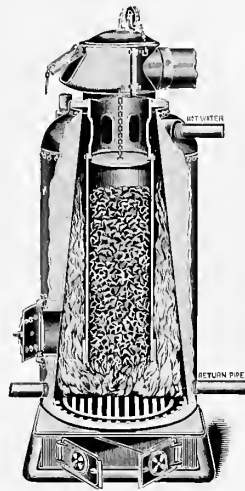
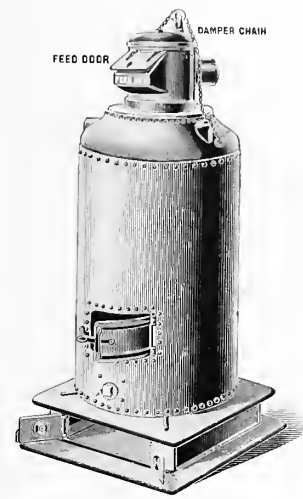
FIG. 1503. WILKS HEATER,
WITH PLAIN HOOD.

FIG. 1504. SECTIONAL VIEW.

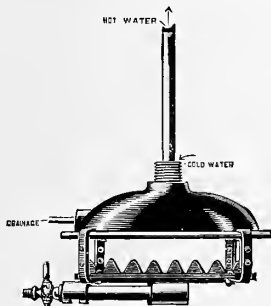
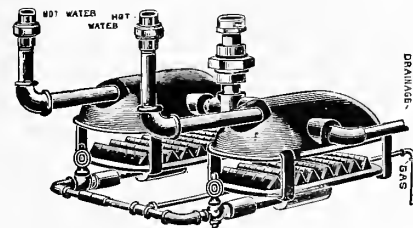
FIG. 1505. WILKS HEATER,
WITH MAGAZINE HOOD.

WILKS WATER HEATERS.—Fig. 1503.

SIZE OF HEATER	INCHES	10 x 15	10 x 18	12 x 24	12 x 30	14 x 30	14 x 36
HEATING CAPACITY PER HOUR	GALLONS	30	40	65	75	100	125
SIZE OF OPENING	INCHES	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$
APPROXIMATE HEATING POWER, 2-INCH PIPE	FEET	50	60	100	125	150	175
HEIGHT FROM FLOOR TO TOP	INCHES	22 $\frac{1}{4}$	25 $\frac{1}{4}$	32 $\frac{1}{4}$	38 $\frac{1}{4}$	40 $\frac{1}{2}$	46 $\frac{1}{4}$
PRICE	EACH	20.00	21.00	25.00	26.50	30.00	32.00

WILKS WATER HEATERS.—Fig. 1505.

SIZE OF HEATER	INCHES	16 x 30	16 x 36	20 x 30	20 x 36	20 x 42	24 x 36	24 x 42	30 x 42	30 x 48	36 x 42	36 x 48	42 x 42	42 x 48
HEATING CAPACITY PER HOUR	GALLONS	140	150	200	250	285	300	325	650	700	900	1000	1200	1300
SIZE OF OPENING	INCHES	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	2	2	2	3	3	3	3	3	3
APPROX. HEATING POWER, 2-IN. PIPE	FEET	250	300	425	450	500	700	1000	1200	1250	1450	1550	2000	2400
HEIGHT FROM FLOOR TO TOP	INCHES	41 $\frac{1}{2}$	47 $\frac{1}{2}$	43	49	55	50	56	57	63	60	66	63	69
PRICE	EACH	57.50	60.00	72.00	75.00	80.00	105.00	110.00	130.00	135.00	185.00	195.00	215.00	225.00

FIG. 1506.
No. 2 HEATER, DETACHED.FIG. 1507. TWIN HEATER,
DETACHED.

"NEW ERA" GAS WATER HEATERS.—Figs. 1506 and 1507.

SIZE		No. 2 Heater.	Twin Heater.
HEATING CAPACITY PER HOUR	GALLONS	30 to 40	40 to 60
PRICE	EACH	9.50	16.00



FIG. 1510. INSTANTANEOUS WATER HEATER.
Nos. 1, 2, AND 3.

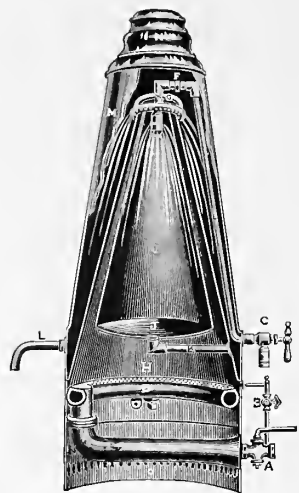


FIG. 1511. SECTIONAL.

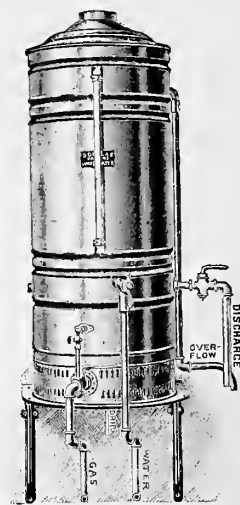


FIG. 1512. INSTANTANEOUS WATER HEATER.
Nos. 4 AND 5.

INSTANTANEOUS WATER HEATERS.— Figs. 1510 and 1512.

NUMBER		1	2	3	4	5
COPPER	EACH	20.00	35.00	45.00	30.00	38.00
NICKEL-PLATED	EACH	23.00	40.00	52.00	35.00	44.00
JAPANNED IRON SHELF	EACH	1.50	2.50	2.50	2.00	2.00
NICKEL-PLATED IRON SHELF	EACH	2.50	4.00	4.00	3.50	3.50
DIAMETER OF HEATER	INCHES	9	15	15	12	12
HEIGHT	INCHES	28	42	42	38	40

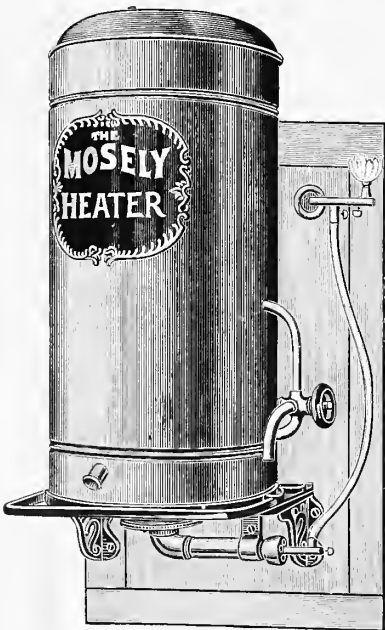


FIG. 1513. MOSELY IMPROVED HEATER,
FOR GAS.

MOSELY HEATERS.

- Style A. Galvanized Iron Tank, Enameled.
- Style B. Copper Lacquered, with Enameled Top and Base.
- Style C. Copper Lacquered, with Bronzed Top and Base.
- Style D. Copper Nickel-plated, with Bronzed Top and Base.

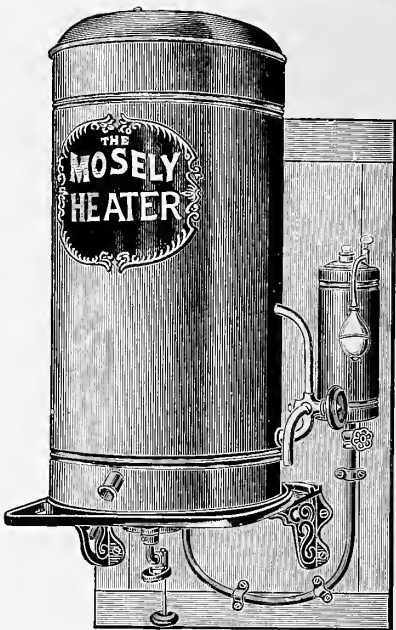
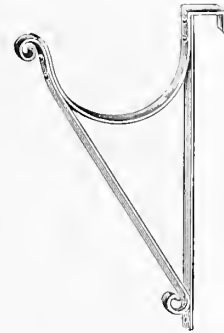


FIG. 1514. MOSELY IMPROVED HEATER,
FOR GASOLINE.

MOSELY HEATERS.— Figs. 1513 and 1514.

STYLE	A	B	C	D
EACH	18.75	22.25	25.50	28.00

MISCELLANEOUS PLUMBING GOODS.

FIG. 1515.
BOILER STAND.FIG. 1516. WROUGHT-IRON HANGER,
FOR HORIZONTAL BOILER.
ARE MADE TO ORDER FOR ANY SIZE BOILER.FIG. 1517. WROUGHT-IRON BRACKET,
FOR HORIZONTAL BOILER.
ARE MADE TO ORDER FOR ANY SIZE BOILER.

BOILER STANDS.—Fig. 1515.

DIAMETER OF RING . . . INCHES	12	13	14	16	18	20	22	24
FOR BOILERS . CAPACITY, GALLONS	18 to 30	35	40	52 and 63	66	82	100 to 120	120 to 192
PLAIN EACH	1.25	1.35	1.40	1.85	2.00	2.25	2.75	3.50
GALVANIZED EACH	2.50	2.60	2.70	3.25	3.80	4.50	5.00	6.50

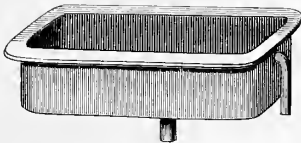


FIG. 1518. SQUARE COPPER PANTRY SINK.



FIG. 1519. OVAL COPPER PANTRY SINK.

COPPER PANTRY SINKS.—Figs. 1518 and 1519.

SIZE INCHES	12 x 18	12 x 20	14 x 16	14 x 20	14 x 24	16 x 24	16 x 30	18 x 30
SQUARE EACH	4.50	5.00	4.50	6.00	7.00	8.00	10.00	11.00
OVAL EACH	6.00	6.50	6.00	7.50	9.00	10.00	12.00	13.00

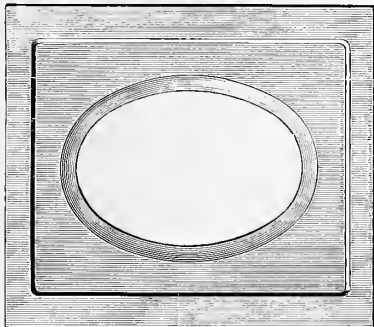


FIG. 1520. OVAL ENAMELED IRON DRIP TRAY.

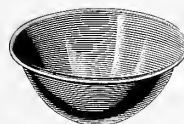


FIG. 1521. CLOSET PAN.

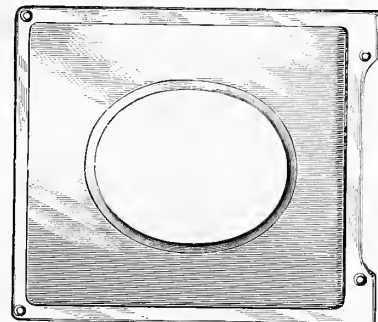


FIG. 1522. EARTHENWARE DRIP TRAY.

DRIP TRAYS AND CLOSET PANS.—Figs. 1520, 1522, and 1521.

FIGURE	1520	1522	1521
OVAL EACH	1.25	3.00	----
ROUND EACH	1.25	----	.65

MISCELLANEOUS PLUMBING GOODS.

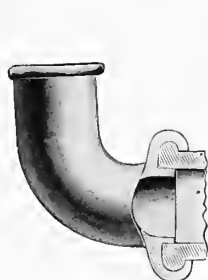
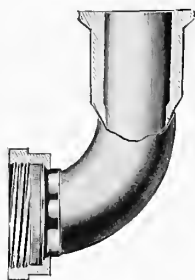
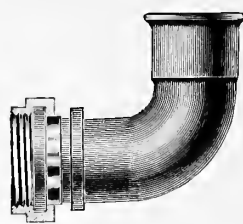
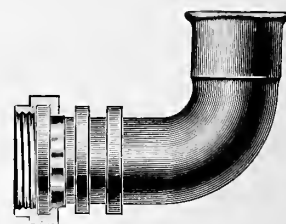
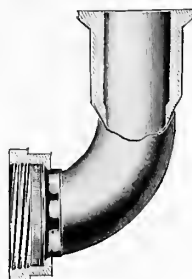
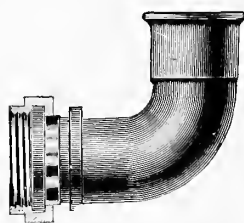
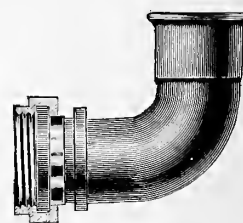
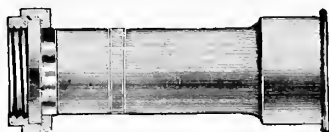
FIG. 1523.
No. 1. 1 1/2-INCH.FIG. 1524.
No. 3. 1 1/2-INCH.FIG. 1525.
No. 4. 1 1/2-INCH. FULL LENGTH,
4 INCHES FROM FACE TO BACK.FIG. 1526.
No. 4A. 1 1/2-INCH. FULL LENGTH,
6 INCHES FROM FACE TO BACK.FIG. 1527.
No. 6. FOR 2-INCH VENT. TO SLIP OVER 2-INCH
IRON OR LEAD PIPE.FIG. 1528.
No. 6A. FOR 2-INCH VENT. TO SLIP OVER 1 1/2-INCH
IRON OR LEAD PIPE; ALSO USED FOR 1 1/2 SIPHON SUPPLY.FIG. 1529.
No. 6AA. 1 1/2-INCH.

FIG. 1530. No. 7. 1 1/2-INCH.

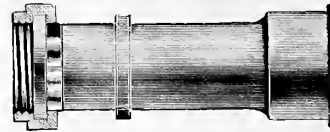


FIG. 1531. No. 8. FOR 2-INCH VENT. TO SLIP OVER 2-INCH IRON OR LEAD PIPE.

RICKETT'S RUBBER CLOSET CONNECTIONS.

NUMBER	1	3	4	4A	5	6	6A	6AA	7	8	9	10	11
PER DOZEN	9.00	9.00	11.00	12.00	14.00	15.00	15.00	15.00	9.00	14.00	24.00	18.00	18.00

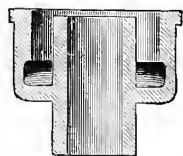


FIG. 1532. ROBB'S RUBBER COUPLING.

For connecting the Supply Pipe to Water Closet Bowls, Urinals, Hoppers, Wash Basins, etc., per dozen, \$1.50

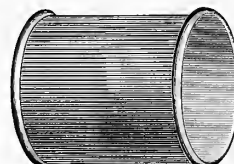


FIG. 1533. OHLIGER'S RUBBER CONNECTION.

For connecting Rubber Plug Bowls, Urinals, the overflow of Common Overflow Bowls, and all kinds of Earthenware to Waste Pipe, per dozen, \$1.25

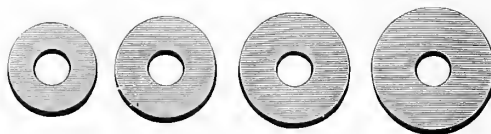


FIG. 1534.

BOSS WASHERS FOR COMPRESSION BIBBS. 3/8, 1/2, 5/8, and 3/4 inch, per 100	.75
FIBER WASHERS FOR COMPRESSION BIBBS. 3/8 to 1 inch, per 100	.75
RUBBER HOSE WASHERS. 3/4-inch, per 100	.75
PAPER BOILER COUPLING WASHERS. Per 100	.75



FIG. 1535. PATENT LOCK SEAM GALVANIZED PIPE.

PATENT LOCK SEAM GALVANIZED PIPE AND FITTINGS.—Fig. 1535.

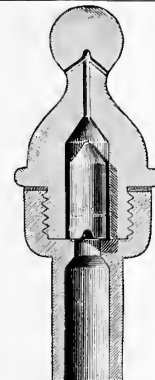
SIZE	INCHES	1½	2	2½	3	4	5	6
PER FOOT		.12	.14	.17	.19	.25	.30	.38
ADJUSTABLE ELBOWS	EACH	.20	.20	.25	.30	.40	.55	.70
ONE-QUARTER AND ONE-EIGHTH BENDS	EACH	.18	.18	.22	.24	.36	.50	.64
TEES AND Y'S	EACH	.25	.30	.40	.45	.60	.78	.96
COUPLINGS	EACH	.18	.18	.22	.24	.36	.50	.64



FIG. 1536. GLOBE VENTILATOR.



FIG. 1537. STAR VENTILATOR.

FIG. 1538. CHAMPION AIR VENT.
SECTIONAL VIEW, FULL SIZE.**GLOBE AND STAR VENTILATORS.—Figs. 1536 and 1537.**

SIZE	INCHES	2	3	4	5	6	7	8	10	12	14	16	18	20	24
CAPACITY	INCHES	4	7	12	19	27	37	48	75	108	147	192	232	300	432
PRICE	EACH	1.00	1.50	1.75	2.50	3.40	4.00	4.65	5.75	6.75	13.00	20.00	27.00	33.00	40.00

By estimating the number of square inches in your Flue, you can decide what size Ventilator to order.

CHAMPION AIR VENTS.—Fig. 1538.

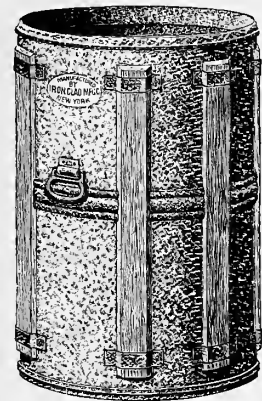
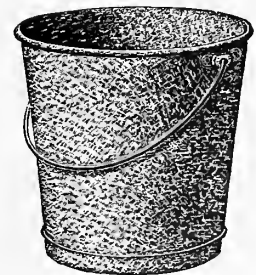
NICKEL-PLATED	EACH	1.75
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GALVANIZED ASH CANS.—Fig. 1539.

NUMBER	7	8	9	10
SIZE	15 x 26	17 x 26	18 x 26	20 x 26
EACH	5.25	6.00	6.25	7.00
COVERS	.70	.80	.85	.90

GALVANIZED MILL PAILS.—Fig. 1540.

10-QUART	PER DOZEN	5.50
12-QUART	PER DOZEN	6.00
14-QUART	PER DOZEN	6.25

FIG. 1539. GALVANIZED ASH CAN,
WITH 8 WOOD STRAPS.FIG. 1540. GALVANIZED MILL
PAIL. HEAVY.

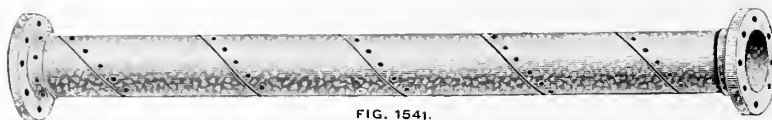


FIG. 1541.

DOUBLE GALVANIZED SPIRAL RIVETED FLANGED PRESSURE PIPE.
MADE OF GALVANIZED IRON, AND RE-GALVANIZED AFTER FORMATION.

INSIDE DIAMETER INCHES	3	4	5	6	7	8	9	10
THICKNESS, BIRMINGHAM GAUGE NUMBER	20	20	20	18	18	18	18	16
NOMINAL WEIGHT PER FOOT POUNDS	2½	3	4	5	6	7	8	11
PRICE, INCLUDING FLANGES PER FOOT	.50	.70	1.00	1.20	1.40	1.70	2.00	2.60
INSIDE DIAMETER INCHES	12	14	15	16	18	20	22	24
THICKNESS, BIRMINGHAM GAUGE NUMBER	16	14	14	14	14	14	12	12
NOMINAL WEIGHT PER FOOT POUNDS	14	20	22	24	29	34	40	50
PRICE, INCLUDING FLANGES PER FOOT	3.15	4.00	4.40	5.15	6.40	7.95	10.00	12.00

Tested to 150 pounds Hydraulic pressure. In lengths 20 feet and less, where lengths are wanted all 5 feet or less, they will be charged as being 5 feet.

GALVANIZED FITTINGS FOR GALVANIZED PRESSURE PIPE.

SIZE INCHES	3	4	5	6	7	8	9	10	12	14	15	16	18	20
ELBOWS EACH	1.60	2.10	2.85	4.10	5.10	6.70	9.00	10.00	15.80	22.30	26.00	30.00	34.00	56.00
TEES EACH	2.75	3.25	4.40	5.70	7.30	9.80	13.80	17.60	22.50	30.50	37.00	44.00	50.00	58.00
CROSSES EACH	4.15	5.30	6.70	8.00	11.00	14.25	18.80	24.50	30.00	38.00	45.00	53.00	59.00	67.00
REDUCERS EACH	---	3.00	3.50	4.75	5.50	6.50	8.00	10.25	13.00	16.50	18.40	21.30	26.00	29.40
FLANGES EACH	.39	.52	.65	.78	1.04	1.17	1.56	1.82	2.08	2.60	3.12	4.42	5.07	5.59
BLIND FLANGES EACH	.45	.65	.78	1.17	1.56	1.82	2.34	2.47	3.90	5.46	5.98	6.76	9.10	11.70
BOLTS AND NUTS EACH	.04	.04	.04	.04½	.04½	.04½	.04½	.04½	.04½	.05	.05	.05	.05	.05
COMPOSITION GASKETS EACH	.09	.10	.12	.16	.18	.23	.31	.40	.50	.63	.75	.90	1.08	1.25

Of the above, the following are made of Riveted Sheet Iron: Reducers, all sizes; Elbows, 14-inch and larger, except 15-inch; Tees and Crosses, 14-inch and larger.

Balance of sizes are Cast Iron.



FIG. 1542.

LYMAN EXHAUST-PIPE HEADS.—Fig. 1542.

SIZE OF EXHAUST PIPE . INCHES	1	1½	2	2½	3	3½	4	4½	5	6	7	8	10	12
PRICE EACH	20.00	20.00	25.00	25.00	30.00	30.00	40.00	40.00	50.00	60.00	75.00	90.00	125.00	150.00

These Exhaust Heads are a great benefit to engines, and will completely stop the emission of water and grease from outlet of Exhaust Pipe, which is so damaging to roofs, walls, etc.



WESTON'S DIFFERENTIAL BLOCKS.—Fig. 1543.

CAPACITY - - - - TONS	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3
REGULAR HOIST - - FEET	5	6	7	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$
WEIGHT - - - - POUNDS	11	22	30	51	81	122	173
EACH - - - - -	10.00	13.00	15.00	20.00	25.00	30.00	40.00
EXTRA HOIST - PER FOOT	1.40	1.44	1.52	1.60	1.68	1.76	1.92

BELL BOTTOM JACK SCREWS.—Fig. 1544.

LENGTH OF BASE, INCHES	5	6	8	10	12	14	16	18	20	24
DIAM. SCREW, $1\frac{1}{2}$ INCHES	3.50	3.75	4.25	4.75	5.25	6.00	6.75	---	---	---
DIAM. SCREW, $1\frac{3}{4}$ INCHES	---	4.50	5.00	5.75	6.25	6.75	7.50	8.50	---	---
DIAM. SCREW, 2 INCHES	---	5.25	6.00	6.75	7.50	8.25	9.25	10.25	11.50	13.50
DIAM. SCREW, $2\frac{1}{4}$ INCHES	---	---	7.50	8.25	9.00	10.00	11.00	12.00	13.25	15.75
DIAM. SCREW, $2\frac{3}{4}$ INCHES	---	---	8.75	9.75	10.75	12.00	13.25	14.50	15.75	18.25



FIG. 1544. BELL BOTTOM JACK SCREW.

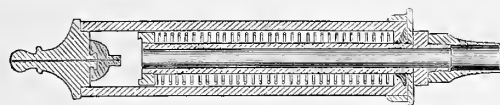


FIG. 1545. PATENT SAFETY WATER CUSHION, FOR PREVENTING WATER HAMMER.

EACH - - - - -	3.00
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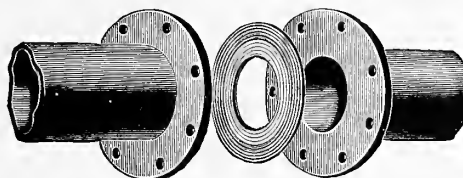


FIG. 1546. METAL GASKET.

METAL GASKETS FOR FLANGES.

SIZE OF FLANGE - INCHES	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12	14	16	20	24
EACH - - - - -	.07	.08	.10	.12	.15	.18	.20	.25	.30	.35	.50	.60	.70	.85	1.15	1.50

METAL GASKETS FOR UNIONS.

SIZE OF UNION - - INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
PER HUNDRED - - - - -	1.50	1.50	1.50	2.00	2.00	2.00	2.00	3.00	3.00	3.00

CORRUGATED COPPER UNION WASHERS.

SIZE - - - - - INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
PER HUNDRED - - - - -	2.00	2.00	2.25	2.50	2.75	3.50	4.50	5.50



FIG. 1547. MUELLER REGULATOR.

MUELLER WATER PRESSURE REGULATORS.—Fig. 1547.

SIZE - - - - - INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FOR IRON PIPE - - - - EACH	10.00	10.00	13.00	17.50	24.00	40.00	55.00	70.00
SIZE - - - - - INCHES	4	6	8	10	12	16	20	---
FOR IRON PIPE - - - - EACH	90.00	150.00	200.00	300.00	400.00	700.00	900.00	---

If fitted for Lead Pipe, sizes $\frac{1}{2}$, $\frac{3}{4}$, and 1 inch, extra, 25 cents; Relief Valve, extra, 25 cents; Regulators, sizes 6 to 20 inches, are made with springs instead of levers and weights as formerly.

This Regulator can be set at any pressure desired in the building, and it will maintain the same, no matter how great the pressure may be in the mains.

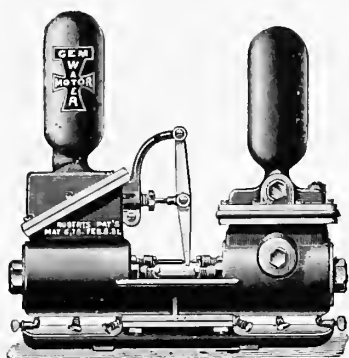


FIG. 1548. GEM WATER MOTOR.

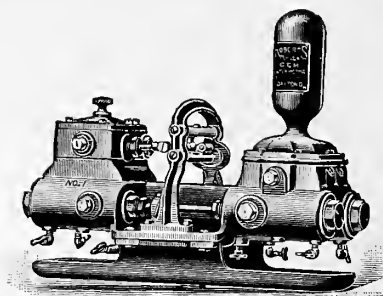


FIG. 1549. DUPLEX GEM MOTOR.

GEM AND DUPLEX WATER MOTORS.—Figs. 1548 and 1549.

FIGURE		1548			1549		
NUMBER		1	2	3	1	2	3
PRICE	EACH	40.00	45.00	50.00	50.00	52.50	55.00
SUPPLY PIPE	INCHES	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
EXHAUST PIPE	INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
SUCTION AND DISCHARGE PIPE	INCHES	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
HEIGHT OVER ALL	INCHES	$15\frac{1}{2}$	$16\frac{1}{2}$	$17\frac{1}{2}$	$13\frac{1}{2}$	$13\frac{1}{2}$	$13\frac{1}{2}$
LENGTH OVER ALL	INCHES	$15\frac{1}{2}$	$15\frac{1}{2}$	$15\frac{1}{2}$	17	17	17

TABLE OF HEIGHTS DIFFERENT PRESSURES WILL RAISE WATER FROM CISTERNS.

NUMBER	1	1	1	2	2	2	2	2	3	3	3	3
POUNDS PRESSURE	25	35	50	15	20	25	35	40	10	12	15	20
FIG. 1548. WILL LIFT AND FORCE, FEET	30	40	70	20	40	50	80	100	30	40	50	70
FIG. 1549. WILL LIFT AND FORCE, FEET	40	60	80	40	60	70	100	125	40	50	70	100

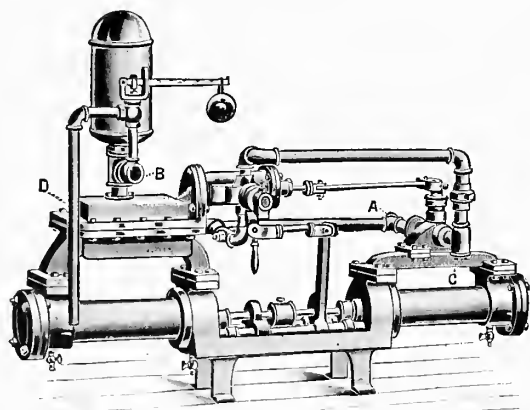


FIG. 1550. HYDRAULIC AUTOMATIC WATER PUMPS.

HYDRAULIC AUTOMATIC WATER PUMPS.

CLASS	A	B	C
PRICE — EACH	60.00	75.00	100.00

Safety Valves, each \$2.50. Water Pressure Regulators, $\frac{3}{4}$ -inch, \$7.00; 1-inch, \$10.00.

The following style of Pump to be adopted: When used to pump cistern water for ordinary household requirements, Class A, when water pressure is not below 40 pounds. Class B, when water pressure varies between 25 and 40 pounds. Class C, when water pressure varies between 10 and 25 pounds.

When Pumps are desired for the purpose of increasing pressure: Class A, No. 1, will double the pressure. Class B, No. 2, will increase pressure $2\frac{1}{2}$ times. Class C, No. 1, will increase pressure $3\frac{1}{2}$ times. Class C, No. 2, will increase pressure 5 times.

AMERICAN HYDRANTS AND STREET WASHERS.



FIG. 1551. AMERICAN HYDRANT.



FIG. 1552. AMERICAN STREET WASHER.

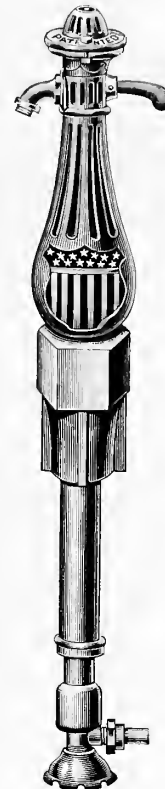


FIG. 1553. AMERICAN SELF-CLOSING HYDRANT.

AMERICAN HYDRANTS.—Figs. 1551 and 1553.

TO SET IN GROUND FEET	1½	2	2½	3	4	5	6	8	10
OPENING ¾-INCH EACH	9.80	10.10	10.35	10.60	11.00	11.50	12.10	13.50	16.00
OPENING 1-INCH EACH	12.70	13.50	13.90	14.30	14.75	15.30	16.00	18.50	21.00
OPENING 1¼-INCH EACH	19.70	20.50	21.15	21.80	22.25	22.80	23.75	27.00	30.00

AMERICAN STREET WASHERS.—Fig. 1552.

TO SET IN GROUND FEET	1½	2	2½	3	4	5	6	8	10
OPENING ¾-INCH EACH	6.60	6.85	7.10	7.35	7.75	8.25	8.85	10.25	12.75
OPENING 1-INCH EACH	9.50	10.25	10.70	11.10	11.70	12.00	12.75	15.25	17.75
OPENING 1¼-INCH EACH	18.00	18.75	19.45	20.10	20.70	21.00	21.75	25.25	28.75
OPENING 2-INCH EACH	30.00	31.00	32.00	34.00	36.00	38.00	40.00	44.00	48.00

In American Hydrants and Street Washers the water passes through an inner pipe. The Hydrants are cast in one piece. There is no packing in top parts, and they can be repaired without digging up.

If Hydrants and Street Washers are desired for Iron Pipe Connections, order them with thread on couplings, for Iron Pipe. We recommend these Hydrants and Street Washers. They are heavy and thoroughly well made.

IDEAL HYDRANTS AND STREET WASHERS.

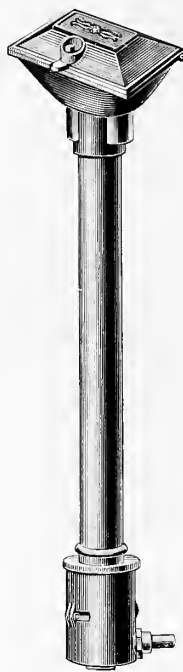
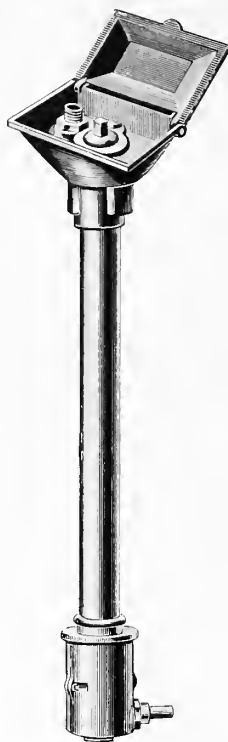


FIG. 1554. IDEAL HYDRANT.

FIG. 1555. IDEAL STREET WASHER.

FIG. 1556. IDEAL STREET WASHER,
WITH LOCK COVER.FIG. 1557. IDEAL HYDRANT,
WITH KEY.

IDEAL HYDRANTS.—Figs. 1554 and 1557.

TO SET IN GROUND FEET	1½	2	2½	3	4	5	6	8	10
OPENING ¾-INCH EACH	9.80	10.10	10.35	10.60	11.00	11.50	12.10	13.50	16.00
OPENING 1-INCH EACH	12.70	13.50	13.90	14.30	14.75	15.30	16.00	18.50	21.00
OPENING 1¼-INCH EACH	19.70	20.50	21.15	21.80	22.25	22.80	23.75	27.00	30.00

IDEAL STREET WASHERS.—Fig. 1555.

TO SET IN GROUND FEET	1½	2	2½	3	4	5	6	8	10
OPENING ¾-INCH EACH	6.60	6.85	7.10	7.35	7.75	8.25	8.85	10.25	12.75
OPENING 1-INCH EACH	9.50	10.25	10.70	11.10	11.70	12.00	12.75	15.25	17.75
OPENING 1¼-INCH EACH	18.00	18.75	19.45	20.10	20.70	21.00	21.75	25.25	28.75

IDEAL STREET WASHERS, WITH LOCK COVERS.—Fig. 1556.

TO SET IN GROUND FEET	1½	2	2½	3	4	5	6	8	10
OPENING ¾-INCH EACH	7.85	8.10	8.35	8.60	9.00	9.50	10.10	11.50	14.00
OPENING 1-INCH EACH	11.50	12.25	12.70	13.10	13.70	14.00	14.75	17.25	19.75
OPENING 1¼-INCH EACH	20.00	20.75	21.45	22.10	22.70	23.00	23.75	27.25	30.75

In Ideal Hydrants and Street Washers the water passes through an inner pipe. There is no packing in top parts, and they can be repaired without digging up. If Hydrants are desired for Iron Pipe Connections, order them with thread on couplings for Iron Pipe.

The Waste Chamber has a clear area equal to the area of the inner pipe.

CALIFORNIA HYDRANTS AND STREET WASHERS.

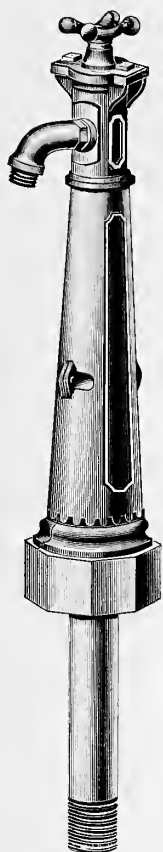


FIG. 1558. CALIFORNIA HYDRANT.

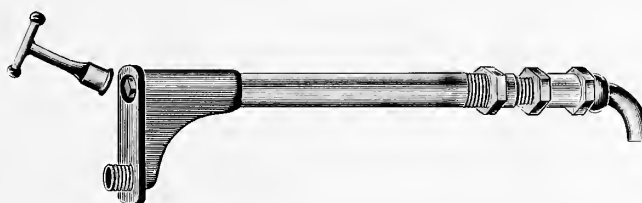


FIG. 1559. IDEAL WALL HYDRANT.

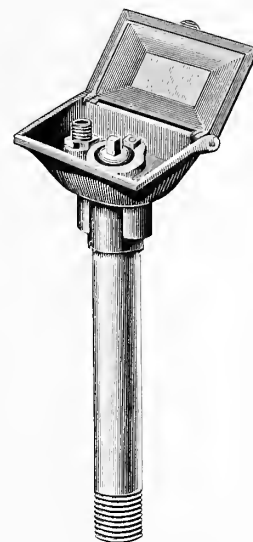


FIG. 1560. CALIFORNIA STREET WASHER.

CALIFORNIA HYDRANTS. To Set in Ground 18 Inches.—Fig. 1558.

SIZE, OUTLET AND INLET PIPE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH	5.00	5.50	6.50	9.00	12.00

CALIFORNIA STREET WASHERS. To Set in Ground 18 Inches.—Fig. 1560.

SIZE, OUTLET AND INLET PIPE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH	3.50	4.00	5.00	7.50	10.00

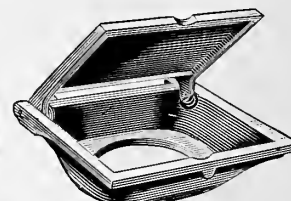
IDEAL WALL HYDRANTS.—Fig. 1559.

THICKNESS OF WALL INCHES	9	13	18	24
$\frac{3}{4}$ -INCH INLET AND OUTLET EACH	3.50	4.00	4.50	5.00
1-INCH INLET AND OUTLET EACH	5.50	6.00	6.50	7.00

Special sizes made to order.

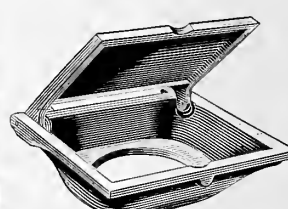
This Hydrant is designed to be placed horizontally in the wall of a building, thereby offering no obstruction to a yard or lawn. The outside end of Hydrant is made of brass, to prevent the possibility of staining stone through corrosion. The face or front of brass head is highly polished, making a neat finish and appearance. Inside of Hydrant is fitted with Compression Valve and a bent coupling for lead or iron pipe, and also with a jam nut to screw, so that outside end of Hydrant can be brought tight and flush with outside of wall, and Hydrant held in a firm position. It can be repaired without taking out of wall.

Nut for opening and closing valve is flush with face, and can only be operated with a key made specially for this purpose.

FIG. 1561.
VALVE.FIG. 1562.
VALVE
PLUNGER.FIG. 1563.
COUPLING.FIG. 1564.
WASTE
CHAMBER.FIG. 1565.
NOZZLE
COUPLING.FIG. 1566.
NOZZLE.FIG. 1567.
NOZZLE
PLATE.FIG. 1568.
CAP.FIG. 1569.
CAP WITH
NUT.FIG. 1570.
CAP, HANDLE,
AND SCREW.FIG. 1571.
HANDLE.FIG. 1572.
NUT AND
SCREW.FIG. 1573.
VALVE SEAT
WASHER.FIG. 1574.
PLATE NUT
AND SCREW.FIG. 1575.
NOZZLE
SECTION.FIG. 1576.
NECK.FIG. 1577.
BOX.

PARTS OF AMERICAN HYDRANTS AND STREET WASHERS.

FIGURE		1561	1562	1563	1564	1565	1566	1567	1568	1569
3/4-INCH	EACH	1.75	1.00	.30	.40	.60	.40	.20	.40	.80
1-INCH	EACH	2.00	1.25	.40	.40	.70	.50	.20	.50	.90
FIGURE		1570	1571	1572	1573	1574	1575	1576	1577	----
3/4-INCH	EACH	1.00	.20	.50	.20	.70	.70	.30	.60	----
1-INCH	EACH	1.20	.20	.50	.25	.80	.80	.40	.80	----

FIG. 1578.
VALVE
BODY.FIG. 1579.
VALVE
PLUNGER.FIG. 1580.
COUPLING.FIG. 1581.
WASTE
CHAMBER.FIG. 1582.
NOZZLE
SECTION.FIG. 1583.
NOZZLE
COUPLING.FIG. 1584.
NOZZLE
COUPLING.FIG. 1585.
NOZZLE.FIG. 1586.
NOZZLE
PLATE.FIG. 1587.
CAP.FIG. 1588.
VALVE SEAT
WASHER.FIG. 1589.
VALVE CUP
WASHER.FIG. 1590.
HANDLE.FIG. 1591.
BENT
SWIVEL.FIG. 1592.
CAP, HANDLE,
AND SCREW.FIG. 1593.
NUT AND
SCREW.FIG. 1594.
PLATE, NUT,
AND SCREW.FIG. 1595.
NOZZLE
SECTION.FIG. 1596.
NECK.FIG. 1597.
KEY.FIG. 1598.
CASING.FIG. 1599.
BOX.

PARTS OF IDEAL HYDRANTS AND STREET WASHERS.

FIGURE		1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588
3/4-INCH	EACH	1.50	.50	.30	.30	.80	.60	.40	.40	.20	.25	.06
1-INCH	EACH	1.75	.75	.40	.40	1.00	.70	.50	.50	.20	.35	.06
FIGURE		1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599
3/4-INCH	EACH	.10	.20	.80	.70	.50	.70	.70	.30	.20	.60	.70
1-INCH	EACH	.10	.20	1.00	1.00	.50	.80	.80	.40	.20	.75	.90

EDDY FIRE HYDRANTS.

WITH BRASS SEAT AND RUBBER-FACED VALVE.

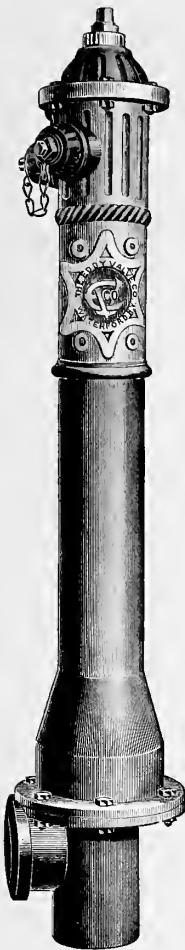


FIG. 1600.

EDDY STANDARD FIRE HYDRANT.

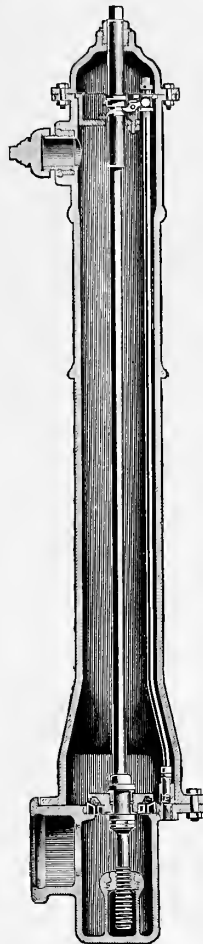
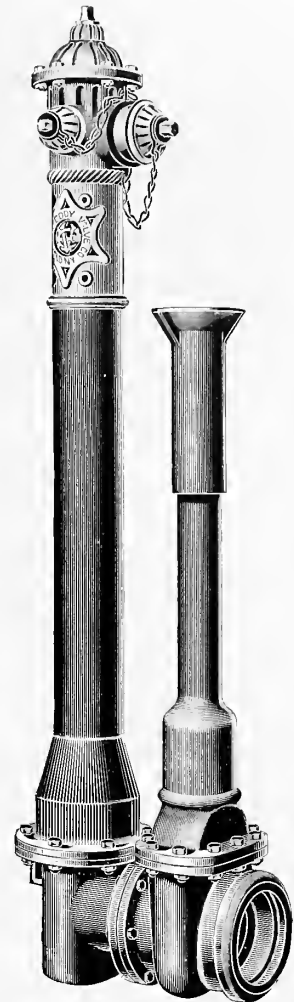


FIG. 1601. SECTIONAL.

FIG. 1602. EDDY FIRE HYDRANT,
WITH AUXILIARY VALVE.

PRICES MADE ON APPLICATION.

EDDY STANDARD FIRE HYDRANTS.—Fig. 1600.

Diameter of Pipe Connect n. Inches.	Inside Diam. of Stand. Pipe, Inches.	Diam-eter of Seat Ring, Inches.	One 2½-inch Nozzle.	Two 2½-inch Nozzles.	Three 2½-inch Nozzles.	Four 2½-inch Nozzles.	Six 2½-inch Nozzles.	One Steamer Nozzle.	One Steamer and one 2½-inch Nozzle.	One Steamer and two 2½-inch Nozzles.	Frost Case, Standard Length.	For each 6 inches more or less than Standard length of Stand. Pipe, add to or deduct from List.	For each 6 inches more or less than Standard length of Frost Case, add to or deduct from List.	Independent Nozzle Gate, each.
3 or 4	4½	3	28.00	—	—	—	—	—	—	—	4.50	.60	.44	—
3 or 4	5½	4	31.00	34.00	36.00	—	—	34.00	36.00	37.00	5.00	.75	.50	3.50
6	5½	4	31.50	34.50	36.50	—	—	34.50	36.50	37.50	5.00	.75	.50	3.50
4 or 6	6	4½	—	35.50	37.50	—	—	35.50	37.50	39.50	5.60	.80	.58	3.50
4 or 6	6½	5	—	38.50	40.50	42.50	—	38.50	40.50	42.50	6.50	.85	.70	3.75
6	7½	6	—	49.00	51.00	53.00	—	49.00	51.00	53.00	7.50	1.00	.90	3.75
8	7½	6	—	50.25	52.25	54.25	—	50.25	52.25	54.25	7.50	1.00	.90	3.75
8 or 10	9½	8	—	—	—	—	130.00	—	—	—	11.00	2.25	1.30	4.50

When ordering Hydrants give following details: Size and form of Nut to open Hydrant; number and size of Nozzles; length from pavement to bottom of connection; size of connection to main, and whether it is desired to open Hydrants by turning to the right or left. In sending gauge for Hydrants we always prefer a Hydrant Cap, as this should give both thread of Nozzle and size and style of Nut. We carry constantly in stock, and term our standard pattern Hydrant, Five-foot Double Discharge, 2½-inch Nozzles, 4-inch hub inlet Hydrants, Pentagon Nut, ¾-inch sides, made to open turning to the left, and Chicago Standard Hose Thread. We recommend this pattern to all new companies.

AMERICAN FIRE HYDRANTS.

BRASS MOUNTED, RUBBER VALVE, AND POSITIVE WASTE.

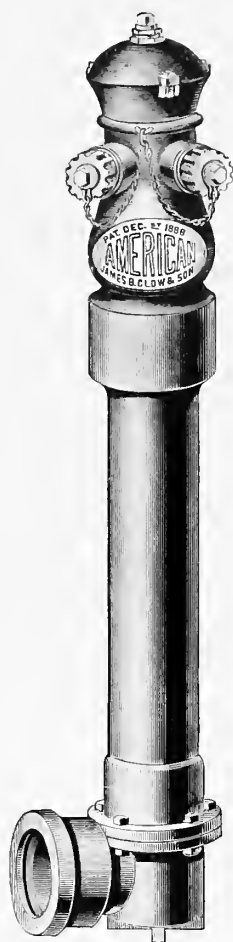
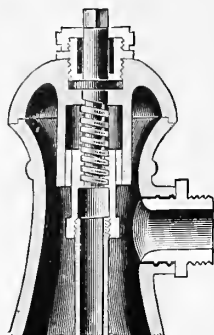
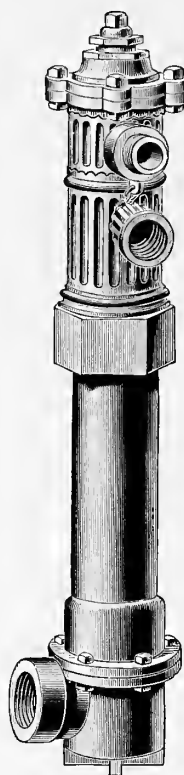
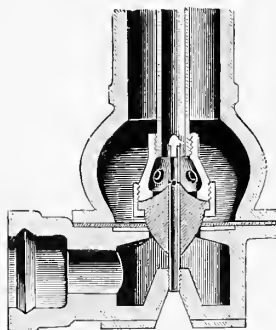
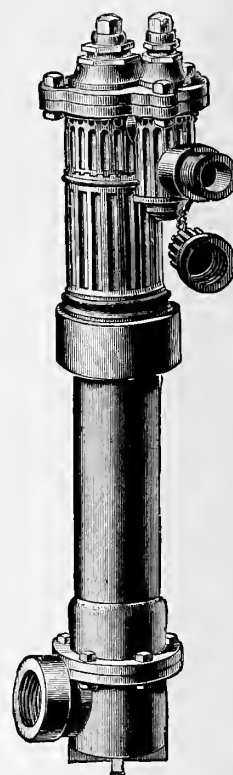
FIG. 1603. AMERICAN
STANDARD FIRE HYDRANT.

FIG. 1604. SECTIONAL.

FIG. 1605. AMERICAN
CORPORATION HYDRANT.FIG. 1606. AMERICAN
SPRINKLER HYDRANT.

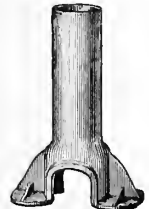
AMERICAN STANDARD FIRE HYDRANTS.—Fig. 1603.

Diameter of Inlet Pipe, Inches.	Pavement to Center of Inlet, Feet.	One 2½-inch Hose Nozzle.	Two 2½-inch Hose Nozzles.	Three 2½-inch Hose Nozzles.	One Steamer Nozzle.	One Steamer and One 2½-inch Nozzle.	One Steamer and Two 2½-inch Nozzles.	Frost Case, Standard Length.	Each Foot in Length of Stand Pipe, extra.	Each Foot in Length of Frost Case, extra.
3	5	27.50	29.50	31.50	29.00	31.50	33.50	3.00	1.20	.50
4	5	32.00	34.00	36.00	34.00	36.00	38.00	4.00	1.50	.75
5	5	38.00	40.00	42.00	40.00	42.00	44.00	5.00	1.75	1.00
6	5	47.00	49.00	51.00	49.00	51.00	53.00	6.00	2.25	1.25

When ordering Hydrants give the following details: See bottom of page 381.

AMERICAN HYDRANTS.—Figs. 1605 and 1606.

TO SET IN GROUND	FEET	1½	2	3	4	5	6	8	10
FIG. 1605. 1¼-INCH INLET AND OUTLET	EACH	11.85	12.00	12.30	12.65	13.00	13.50	15.00	17.00
FIG. 1605. 1½-INCH INLET AND OUTLET	EACH	16.30	16.45	16.80	17.15	17.50	18.00	19.50	22.00
FIG. 1605. 2-INCH INLET AND OUTLET	EACH	22.25	22.50	23.00	23.50	24.00	24.75	27.00	30.00
FIG. 1606. 1½-INCH INLET AND OUTLET	EACH	21.30	21.45	21.80	22.15	22.50	23.00	24.50	27.00
FIG. 1606. 2-INCH INLET AND OUTLET	EACH	28.25	28.50	29.00	29.50	30.00	30.75	33.00	36.00
FIG. 1606. 3-INCH INLET AND OUTLET	EACH	35.50	36.50	37.00	38.00	39.00	40.00	45.00	48.00

FIG. 1607.
SPECIAL BOX.FIG. 1608.
STANDARD BOX.FIG. 1609.
SPECIAL BOX.FIG. 1611.
SPECIAL BOX.FIG. 1612.
EXTENSION SECTIONFIG. 1613.
ENLARGED BASE.**SPECIAL SERVICE BOXES, 2½-INCH DIAMETER.—Fig. 1607.**

NUMBER OF BOX		88	89 A	90 B	91 C	92 C	92 D	93 D	93 E	94 D	94 E	95 E	100 E	100 F
EXTENDING	INCHES	12	12-20	18-26	21-33	24-38	24-42	36-48	36-54	42-57	42-60	48-66	54-72	54-78
EACH		.70	.75	.82	.88	.92	.95	1.00	1.04	1.08	1.14	1.20	1.25	1.40

STANDARD SERVICE BOXES, 3-INCH DIAMETER.—Fig. 1608.

NUMBER OF BOX		0	1	1½	2	3	4	5	7	8
EXTENDING	INCHES	10	13-21½	18-28	24-39	32-48	34-58	42-66	48-72	72-96
EACH		.85	.90	.95	1.05	1.15	1.20	1.40	1.60	2.00

SPECIAL SERVICE BOXES, 2½-INCH DIAMETER, with Stop-cock Holder.—Fig. 1609.

NUMBER OF BOX		288	289	290	291	292	293	294	295	296	297	298	299	300
EXTENDING	INCHES	12	12-20	18-26	21-33	24-38	24-42	36-48	36-54	42-57	42-60	48-66	54-72	54-78
EACH		.85	.90	.97	1.03	1.07	1.10	1.15	1.19	1.23	1.29	1.35	1.40	1.55

STANDARD SERVICE BOXES, 3-INCH DIAMETER, with Stop-cock Holder.—Fig. 1609.

NUMBER OF BOX		100	101	101½	102	103	104	105	107	108
EXTENDING	INCHES	10	13-21½	18-28	24-39	32-48	34-58	42-66	48-72	72-96
EACH		1.00	1.05	1.10	1.20	1.30	1.35	1.55	1.75	2.15

SPECIAL SERVICE BOXES, 2½-INCH DIAMETER, with Rod and Ring.—Fig. 1611.

NUMBER OF BOX		388	389	390	391	392	393	394	395	396	397	398	399	400
EXTENDING	INCHES	12	12-20	18-26	21-33	24-38	24-42	36-48	36-54	42-57	42-60	48-66	54-72	54-78
EACH		.95	1.00	1.07	1.13	1.17	1.20	1.25	1.29	1.33	1.39	1.45	1.50	1.65

EXTENSION SECTIONS FOR SERVICE BOXES.—Fig. 1612.

NUMBER OF BOX SECTION		151	152	153	154	155	156	157
INCREASING LENGTH OF BOX	INCHES	9	16½	28	33	20	24	30
2½-INCH DIAMETER	EACH	.40	.45	.50	.60	---	---	---
3-INCH DIAMETER	EACH	---	---	---	---	.45	.50	.60

Fig. 1613.—Enlarged Base for Service Boxes, 3-inch diameter, to allow use of 2-inch cocks, each 50 cents.



FIG. 1614. VALVE BOX, WITH NO. 6 BASE.

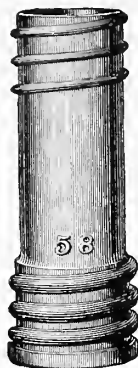
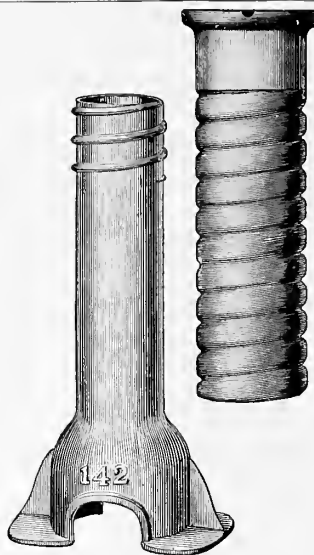
FIG. 1615. No. 58.
EXTENSION
SECTION FOR
VALVE BOX.

FIG. 1616. EXTRA LARGE SERVICE BOX.

FIG. 1617. No. 49.
EXTENSION
SECTION.

VALVE BOXES WITH NO. 6 BASE.—Fig. 1614.
DIAMETER OF SHAFT, 5/4 INCHES.

NUMBER OF BOX	AAA	AA	A	B	C	CC
EXTENDING INCHES	17	22-28	28-40	36-48	42-54	48-60
EACH	3.15	3.60	3.80	4.00	4.20	4.40
NUMBER OF BOX	D	DD	E	F	G	H
EXTENDING INCHES	42-65	48-72	60-72	60-84	72-84	72-96
EACH	4.60	4.85	5.00	5.15	5.40	5.65

BASES FOR VALVE BOXES.

STYLE OF BASE	No. 4 Round For 4-inch Valves.	No. 6 Round For 6 and 8 inch Valves.	No. 8 Round For 10-inch Rd. Valves.	No. 16 Round For 12 and 16 inch Rd. Valves.	No. 160 Oval For 10, 12, and 16 inch Oval Valves.	No. 162 Oval For 18 and 20 inch Oval Valves.
EACH	Deduct from price of Box .30	Included in price of Box.	Add to price of Box .30	Add to price of Box 1.60	Add to price of Box .45	Add to price of Box 1.60

Extension Section No. 58, to extend Fig. 1614 fourteen inches, \$1.00 each.

ROADWAY OR SMALL VALVE BOXES FOR 3-INCH OR SMALLER VALVES.
DIAMETER OF BOX, 4 1/4 INCHES.

NUMBER OF BOX	41 Q	42 Q	42 R	43 R	44 R	45 R
EXTENDING INCHES	18 to 24	27 to 34	27 to 42	34 to 48	39 to 54	46 to 60
EACH	2.35	2.50	2.85	2.95	3.00	3.20

EXTRA LARGE SERVICE BOXES FOR 3-INCH SERVICE.—Fig. 1616.
DIAMETER OF BOX, 4 1/4 INCHES.

NUMBER OF BOX	141 Q	142 Q	142 R	143 R	144 R	145 R
EXTENDING INCHES	18 to 24	27 to 34	27 to 42	34 to 48	39 to 54	46 to 60
EACH	2.35	2.50	2.85	2.95	3.00	3.20

Extension Section No. 49, to extend Fig. 1616 eighteen inches, \$1.00 each.



FIG. 1620.
No. 71. EXTENSION SECTION.



FIG. 1621. IRON METER
FRAME AND COVER.



FIG. 1622. CLOSED METER BOX.

EXTENSION METER BOXES, FOR COVERING $\frac{5}{8}$ -INCH METERS.

FIG. 1619. EXTENDING 2 FEET 4 INCHES TO 3 FEET 2 INCHES	EACH	3.50
FIG. 1620. EXTENDING FIG. 1619 14 INCHES	EACH	1.00

FIG. 1619.
EXTENSION METER BOX.

IRON METER FRAMES AND COVERS.—Fig. 1621.

SIZE	INCHES	24 x 24 Medium Weight.	24 x 24 Heavy.	24 x 24 Extra Heavy, for use in Streets.
EACH		6.00	8.00	18.00

CLOSED METER BOXES.—Fig. 1622.

FOR $\frac{5}{8}$, $\frac{3}{4}$, AND 1 INCH METERS	EACH	6.00
---	------	------

By calking joints, this box can be made water-tight, and the Meter protected in winter by filling box with suitable packing.



FIG. 1623. GAS DRIP BOX.



FIG. 1624. GRANITINE CATCH-BASIN COVER.

GAS DRIP BOXES, FOR COVERING PIPE.—Fig. 1623.

LENGTH, 16 INCHES; OUTSIDE DIAMETER, 9 INCHES; FLANGE, 15 INCHES SQUARE	EACH	3.00
---	------	------

GRANITINE SEWER OR CATCH-BASIN COVERS.—Fig. 1624.

GRANITINE TOP ONLY, 36 INCHES DIAMETER	EACH	2.50
IRON MANHOLE PLATE ONLY, 18 INCHES DIAMETER	EACH	.75

MANHOLE COVERS FOR VALVES AND SEWERS.

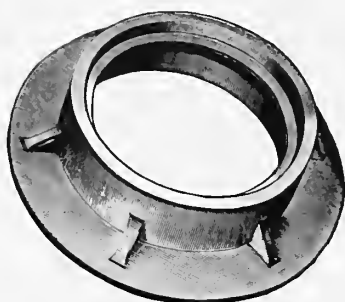


FIG. 1625. REGULAR MANHOLE CURB

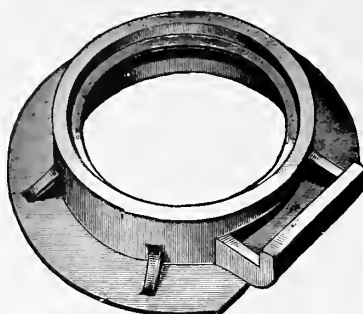


FIG. 1626. CATCH-BASIN CURB.

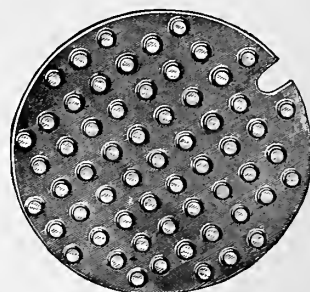


FIG. 1627. SOLID COVER.

	Diameter of Opening, Inches.	Height above Flange, Inches.	Projection of Flange, Inches.	Drainage Inlet, Inches.	Approximate Weight, Pounds.	Price.
FIG. 1625. CHICAGO STANDARD . . EACH	22 $\frac{3}{4}$	8 $\frac{1}{2}$	5 $\frac{1}{2}$	----	380	13.25
FIG. 1625. SUBURBAN STANDARD . EACH	22 $\frac{3}{4}$	8 $\frac{1}{2}$	5 $\frac{1}{2}$	----	235	8.50
FIG. 1626. CHICAGO STANDARD . . EACH	22 $\frac{3}{4}$	8 $\frac{1}{2}$	5 $\frac{1}{2}$	4 $\frac{1}{2}$ x 12	430	14.50
FIG. 1626. SUBURBAN STANDARD . EACH	22 $\frac{3}{4}$	8 $\frac{1}{2}$	5 $\frac{1}{2}$	4 $\frac{1}{2}$ x 12	270	9.25
FIG. 1627. SOLID OR PERFORATED . . . EACH	22 $\frac{3}{4}$	----	----	----	130	3.50

We make a Sidewalk Area Curb, light pattern, same style as Fig. 1625, with Solid Cover, Fig. 1629, weight complete, 165 pounds. Price, \$4.95. We furnish either Solid or Perforated Cover with Chicago and Suburban Patterns at same price. Solid Cover will always be sent unless Perforated Cover is specified.



FIG. 1628. SIDEWALK CATCH-BASIN CURB.



FIG. 1629. SOLID COVER, LIGHT PATTERN.

	Diameter of Opening, Inches.	Projection of Flange, Inches.	Height above Flange, Inches.	Drainage Inlet, Inches.	Approximate Weight, Pounds.	Price.
FIG. 1628. WITH LIGHT COVER . . EACH	19 $\frac{1}{2}$	3 $\frac{1}{2}$	5 $\frac{1}{2}$	4 x 10	150	5.70
FIG. 1629. SOLID COVER EACH	19 $\frac{1}{2}$	----	----	----	40	1.20

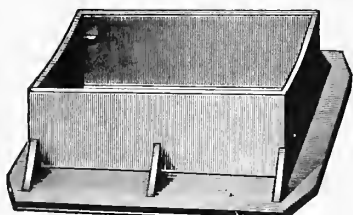


FIG. 1630. GUTTER CURB.

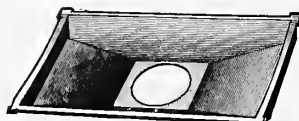


FIG. 1631. GUTTER CURB PAN.



FIG. 1632. GUTTER CURB GRATE.

GUTTER CURBS, PANS, AND GRATES.—Figs. 1630, 1631, and 1632.

COMPLETE CHICAGO STANDARD, APPROXIMATE WEIGHT, 305 POUNDS	EACH	8.00
COMPLETE SUBURBAN STANDARD, APPROXIMATE WEIGHT, 250 POUNDS	EACH	6.75

Length of opening, 24 inches; width of opening, 13 inches; height above flange, 9 inches; projection of flange, 4 $\frac{1}{2}$ inches.



FIG. 1634. STANDARD PATTERN.

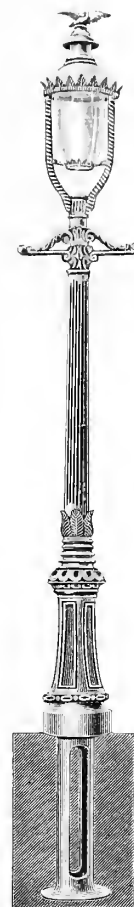


FIG. 1635. BOULEVARD PATTERN.

LAMP POSTS AND GAS LAMPS.—Figs. 1634 and 1635.

FIGURE		1634	1635
COMPLETE	EACH	15.00	36.00
LANTERN ONLY	EACH	4.00	18.00
POST ONLY	EACH	11.00	18.00
APPROXIMATE WEIGHT	POUNDS	200	250
HEIGHT FROM GROUND		8 ft. 2 in.	9 ft. 2 in.

Our Lamp Posts are well made, light, and strong.

FIG. 1636. GASLIGHTER'S TORCH,
FOR LIGHTING THROUGH THE BOTTOM OF THE LAMP.

BRASS	EACH	3.00
TIN	EACH	2.00

Gas companies who light their lamps by opening the door do not realize how much time and money they waste. The lamplighters of Chicago light eighty to one hundred lamps in forty-five minutes by the use of these Torches. The keys in the cocks should be oiled about once in six months. Use kerosene or mix with lard oil.

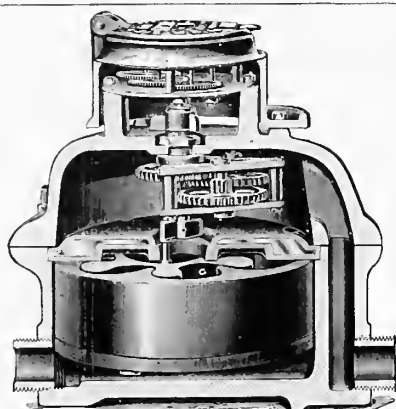


FIG. 1638. SECTIONAL.

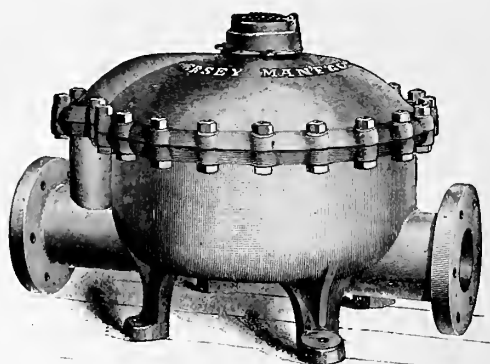
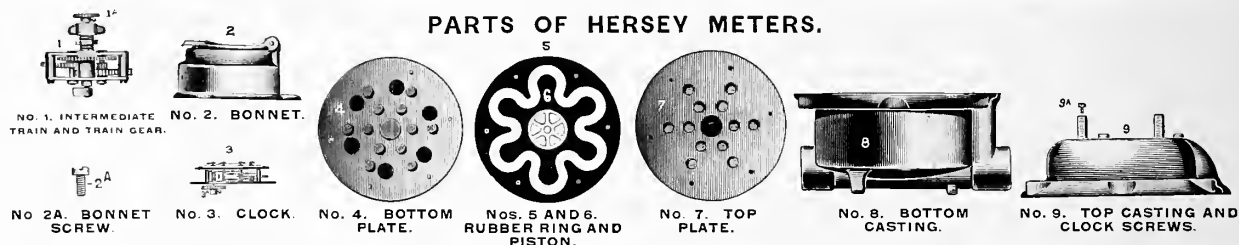


FIG. 1639. HERSEY WATER METER.

HERSEY WATER METERS.—Fig. 1639.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6
CAPACITY	GALLONS	15	30	60	90	150	270	540	900
METER ONLY	EACH	16.00	24.00	33.34	53.34	80.00	160.00	320.00	640.00
CONNECTIONS	PER METER	.60	.87	1.20	4.00	5.67	4.00	5.34	8.00
FISH TRAPS	EACH	2.67	2.67	5.37	8.00	8.00	13.34	20.00	26.67
DIAL EXTENSIONS	EACH	2.00	2.00	2.00	2.00	2.67	2.67	2.67	2.67



NUMBER OF PART	1	1A	2	3	3A	4	5	6	7	8	9
$\frac{5}{8}$ -INCH METER - EACH	2.67	.14	.67	1.34	.14	1.34	2.67	1.87	1.34	2.00	1.20
$\frac{3}{4}$ -INCH METER - EACH	2.67	.14	.67	1.67	.14	2.67	4.34	3.00	2.67	3.20	2.00
1-INCH METER - EACH	2.67	.14	.67	2.00	.14	4.00	6.34	4.54	4.00	4.80	3.00
1 $\frac{1}{2}$ -INCH METER - EACH	3.34	.14	.67	2.34	.14	6.67	11.34	8.00	6.67	8.34	4.14
2-INCH METER - EACH	3.34	.20	1.00	2.67	.20	10.67	17.34	12.00	10.67	13.14	6.67



NUMBER OF PART	11	11A	13	14	15	16	17	18	19	20
$\frac{5}{8}$ -INCH METER - EACH	---	.14	.31	---	.14	.20	.20	---	---	---
$\frac{3}{4}$ -INCH METER - EACH	---	.20	.44	---	.20	.27	.27	---	---	---
1-INCH METER - EACH	---	.27	.60	---	.27	.34	.34	---	---	---
1 $\frac{1}{2}$ -INCH METER - EACH	.67	---	---	1.34	.34	.54	.54	---	---	---
2-INCH METER - EACH	.95	---	---	1.90	.40	.74	.74	---	---	---
3-INCH METER - EACH	---	---	---	---	---	---	---	2.00	1.00	2.00
4-INCH METER - EACH	---	---	---	---	---	---	---	2.67	1.34	2.67
6-INCH METER - EACH	---	---	---	---	---	---	---	4.00	2.00	4.00

In ordering parts of Meter, it will be necessary to state size of Meter and its Number, also Number of Part, referring to above list.

DISC WATER METERS.

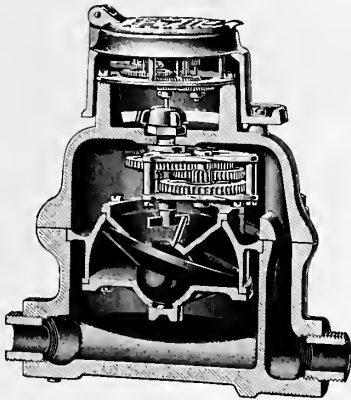


FIG. 1640. SECTIONAL.

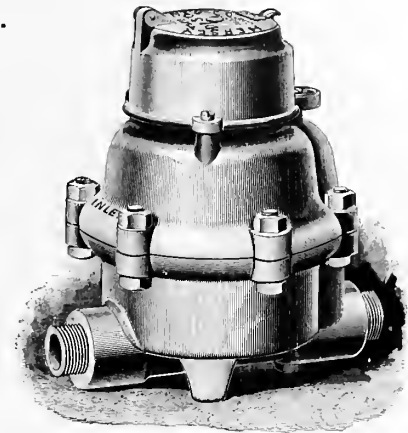


FIG. 1641. DISC WATER METER.

DISC WATER METERS.—Fig. 1641.

SIZE	INCHES	$\frac{3}{8}$	$\frac{1}{2}$	1	1½	2
CAPACITY	GALLONS	15	30	60	90	150
DIAMETER	INCHES	6	7	8	10	12
WEIGHT	POUNDS	12	17	24	39	63
METER ONLY	EACH	10.67	16.00	21.34	43.34	66.67
CONNECTIONS	PER METER	.60	.87	1.20	4.00	5.67
FISH TRAPS	EACH	2.67	2.67	5.34	8.00	8.00
DIAL EXTENSIONS	EACH	2.00	2.00	2.00	2.00	2.67

PARTS OF DISC METERS.

No. 1. INTERMEDIATE
TRAIN AND TRAIN GEAR.

No. 2. BONNET.

No. 3. CLOCK.

No. 4A. BOTTOM PLATE.


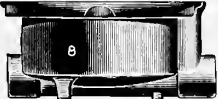

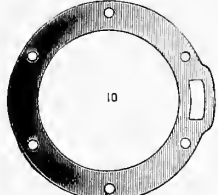





No. 5A. RING.

No. 4B. CONE.

No. 5B. ABUTMENT.

No. 6B. DISC AND SPINDLE.

NUMBER OF PART		1	1A	2	3	3A	4A	5A	6A	6B
5/8-INCH METER	EACH	2.67	.14	.67	1.34	.14	.67	1.07	.67	.14
3/4-INCH METER	EACH	2.67	.14	.67	1.67	.14	1.34	2.13	1.34	.20
1-INCH METER	EACH	2.67	.14	.67	2.00	.14	2.00	2.93	2.00	.27

													
No. 7A. TOP PLATE.		No. 8. BOTTOM CASTING.		No. 9. TOP CASTING AND CLOCK SCREW.		No. 10. PACKING.		No. 11A. NIPPLE.		No. 12. LEATHER WASHER.		No. 16. FLANGE BOLTS, PER SET.	
													
No. 13. COUPLING.		No. 17. PLATE SCREWS, PER SET.											

NUMBER OF PART		7A	8	9	10	11A	13	16	17
5/8-INCH METER	EACH	.67	1.20	.80	.14	.14	.31	.20	.20
3/4-INCH METER	EACH	1.34	2.27	1.47	.14	.20	.44	.27	.27
1-INCH METER	EACH	2.00	3.47	2.27	.14	.27	.60	.34	.34

JEWELL WATER FILTERS.

FOR CITIES, WATER WORKS, FACTORIES, PUBLIC BUILDINGS, ETC.

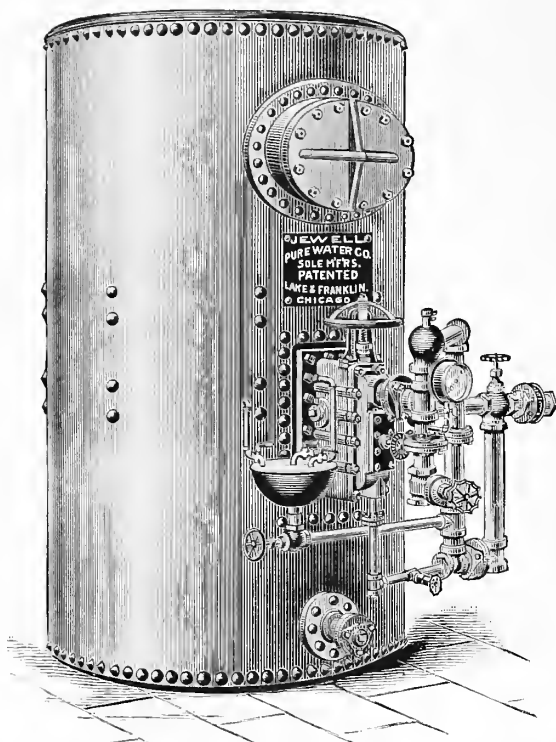
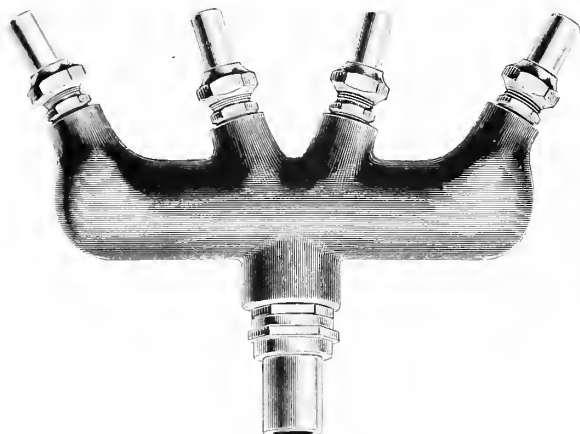


FIG. 1642. 16-INCH AND LARGER FILTERS.

STANDARD SIZES OF PRESSURE FILTERS.
CAPACITY BASED AT 40 POUNDS PRESSURE IN FILTER.

Diameter, Inches.	Pipe Connections.	Capacity in U. S. Standard Gallons per 24 Hours.	Price, with Chemical Tank, Complete, each.
12	$\frac{3}{4}$	3,000	100.00
16	$\frac{3}{4}$	8,000	225.00
24	1	20,000	425.00
30	$1\frac{1}{4}$	30,000	600.00
36	$1\frac{1}{2}$	45,000	725.00
42	2	60,000	840.00
48	2	75,000	1,000.00
54	$2\frac{1}{2}$	100,000	1,200.00
60	$2\frac{1}{2}$	125,000	1,500.00
72	3	170,000	1,900.00
84	4	235,000	2,350.00
96	4	310,000	2,900.00
120	6	500,000	4,200.00

Special High Pressure Filters for Water Works use, or Gravity Filters constructed to order of any capacity. Prices are free on board cars at Chicago. Special Catalogue of Filters sent on application.

FIG. 1643. CLOW WATER CONNECTION.
PATENT APPLIED FOR.**CLOW WATER CONNECTIONS.—Fig. 1643.**

NUMBER - - - - -	1	2	3	4
SIZE OUTLET CONNECTION - INCHES	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
NUMBER OF $\frac{3}{4}$ -INCH BRANCHES - -	2	3	4	- - -
NUMBER OF 1-INCH BRANCHES - - -	- - -	- - -	- - -	4
PRICE - - - - - EACH	1.75	2.50	3.00	5.00

This Connection is intended for use where a 1-inch Connection or larger is to be made and main cannot be tapped for Corporation Cock larger than $\frac{3}{4}$ or 1 inch. The 1-inch Connection has two branches, the $1\frac{1}{4}$ has three, and the $1\frac{1}{2}$ Connection has four, all $\frac{3}{4}$ -inch. The 2-inch Connection has four 1-inch branches.

When the Connection is set about 18 inches from the main, the distance between each tap in main would be about 12 inches.

The inlet Connections are all made for use with lead or iron pipe to the main, and have union joints. The outlet Connection is also made with union joint and for lead or iron pipe.

Wherever used they gave excellent satisfaction, and are a great improvement over the old method of making large connections, and are much cheaper.

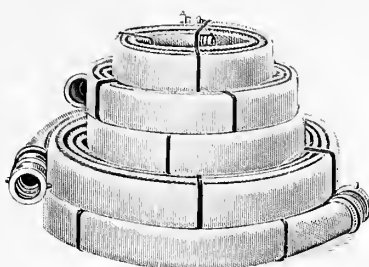


FIG. 1645.

COTTON MILL HOSE, RUBBER-LINED.—Fig. 1645.
GUARANTEED 300 POUNDS PRESSURE.

SIZE	INCHES	1 1/4	1 1/2	2	2 1/2
PRICE, WITHOUT COUPLINGS	PER FOOT	.45	.50	.60	.70

COTTON FIRE HOSE, RUBBER-LINED.

SIZE	INCHES	2 1/2	3	3 1/2	4
GUARANTEED PRESSURE	POUNDS	600	500	450	350
TRIPLE JACKET FIRE HOSE, WITH AUTOMATIC COUPLINGS	PER FOOT	1.10	.....	.....	.....
BOSTON FIRE JACKET, WITH AUTOMATIC COUPLINGS	PER FOOT	.....	1.00	.....	.....
BAY STATE, WITH AUTOMATIC COUPLINGS	PER FOOT	.....	.....	.85	.....
O. K. SINGLE FIRE HOSE, WITH AUTOMATIC COUPLINGS	PER FOOT	.....	.....	.....	.75

STANDARD LINEN HOSE.
UNLINED. NOT GUARANTEED.

SIZE	INCHES	1	1 1/4	1 1/2	2	2 1/4	2 1/2	3
UNLINED	PER FOOT	.14	.16	.18	.23	.25	.26	.37
RUBBER-LINED	PER FOOT	.....	.40	.45	.55	.60	.65	.....



FIG. 1646. RUBBER FIRE HOSE.

RUBBER FIRE HOSE.—Fig. 1646.
VOLUNTEER BRAND—GUARANTEED 400 POUNDS PRESSURE.

PRICE, 2 1/2-INCH, WITH COUPLINGS, COMPLETE	PER FOOT	1.25
---	----------	------

FOUR-PLY HARD RUBBER SUCTION HOSE.

SIZE	INCHES	3/4	1	1 1/4	1 1/2
PER FOOT .....		.65	.75	.93	1.13

This Suction Hose is less expensive than that made on wire, and will answer for many purposes.

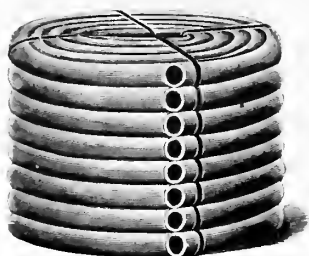


FIG. 1647. RUBBER HOSE.

RUBBER HOSE.—Fig. 1647.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3	4
2-PLY	PER FOOT	.20	.25	.33	.42	.50	.66	.75	.83	.99	1.32
3-PLY	PER FOOT	.25	.30	.40	.50	.60	.80	.90	1.00	1.20	1.60
4-PLY	PER FOOT	.30	.37	.50	.62	.75	1.00	1.12	1.25	1.50	2.00

Five and Six Ply Hose made to order at an advance of 25 and 50 per cent on Four-Ply prices.

We make the following brands of Rubber Hose, Three-Ply, subject to guarantee as below, for one season:

B. W. H. Brand	guaranteed 150 pounds pressure.
Superior Brand	guaranteed 100 pounds pressure.
Bay State Brand	guaranteed 75 pounds pressure.
Tiger Brand	guaranteed 50 pounds pressure.
Competition Brand	not guaranteed.

Should any Hose be returned claimed defective, we will test it on pumps erected for this purpose, and if it will not stand pressure as guaranteed, will credit; if, however, it stands the pressure named, no credit will be given.

STEAM AND BREWERS' HOSE.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
3-PLY	PER FOOT	.43	.54	.67	.85	1.02	---	---	---
4-PLY	PER FOOT	.51	.67	.83	1.04	1.25	1.66	2.08	2.80
5-PLY	PER FOOT	.63	.83	1.03	1.30	1.56	2.07	2.60	3.50
6-PLY	PER FOOT	.76	1.00	1.24	1.56	1.87	2.49	3.12	4.20

Marlin Wound Steam Hose, 10 per cent advance on List net.

We make Steam and Brewers' Hose in three qualities—Superior, Extra, and Standard.

SPIRAL GARDEN HOSE.—Fig. 1648.

SEAMLESS WOVEN COTTON, RUBBER-LINED—GUARANTEED 300 POUNDS PRESSURE.

SIZE	INCHES	$\frac{1}{2}$ Coupled.	$\frac{3}{4}$ Coupled.	1 Uncoupled.
PER FOOT		.25	.30	.45

AIR DRILL HOSE.

CANVAS WRAPPED.

SIZE	INCHES	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	3
3-PLY INSIDE, 1-PLY OUTSIDE	PER FOOT	.67	.83	1.04	1.25	---
4-PLY INSIDE, 1-PLY OUTSIDE	PER FOOT	.83	1.03	1.30	1.56	---
5-PLY INSIDE, 1-PLY OUTSIDE	PER FOOT	1.00	1.24	1.56	1.87	4.20

"TIGER" BRAND.

This brand of Hose will stand from 1,000 to 1,500 pounds air pressure to the square inch, and being made of tough, durable rubber, and strong, closely-woven duck, will resist wear and tear for a long time.

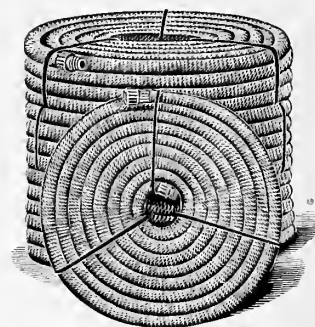


FIG. 1648. COTTON HOSE.

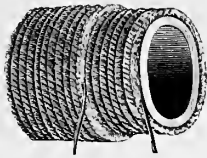
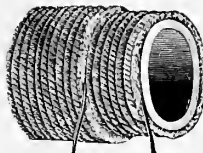
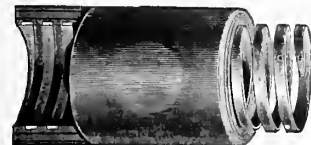


FIG. 1649. SPIRAL JACKET HOSE.

FIG. 1650. COWEN COTTON JACKET
STEAM HOSE.FIG. 1651. RUBBER SUCTION HOSE,
ON FLAT GALVANIZED IRON WIRE.

SPIRAL JACKET HOSE.—Fig. 1649.
GUARANTEED 1,000 POUNDS PRESSURE.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
PER FOOT		.30	.35	.50	.75	.90

COWEN COTTON JACKET STEAM HOSE.—Fig. 1650.
RUBBER-LINED.

SIZE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
PER FOOT		.63	.83	1.03	1.30	1.56

RUBBER SUCTION HOSE.—Fig. 1651.

SIZE - INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
PER FOOT	.77	1.00	1.25	1.65	2.50	3.10	4.00	4.90	5.80	6.70	7.60	9.50	12.00	15.00	17.50	20.00	25.00
PAT. SMOOTH BORE	----	----	----	----	2.60	3.50	4.50	5.50	6.50	7.50	8.50	10.50	13.50	16.50	19.50	22.50	27.50

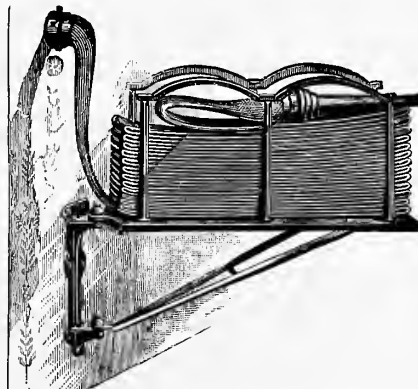


FIG. 1652. SWINGING HOSE RACK.

SWINGING HOSE RACKS.—Fig. 1652.

Number.		Price.
0	FOR 50 FEET, $1\frac{1}{2}$ OR 2-INCH, PLAIN LINEN	5.00
00	FOR 50 FEET, $2\frac{1}{2}$ -INCH, PLAIN LINEN	5.00
1	FOR 100 FEET, $1\frac{1}{2}$ OR 2-INCH, PLAIN LINEN	6.00
2	FOR 100 FEET, $2\frac{1}{2}$ -INCH, PLAIN LINEN	6.00
3	FOR 150 FEET, $1\frac{1}{2}$ OR 2-INCH, PLAIN LINEN	7.00
4	FOR 150 FEET, $2\frac{1}{2}$ -INCH, PLAIN LINEN	7.00
3	FOR 50 FEET, $1\frac{1}{2}$ OR 2-INCH, LINED LINEN OR MILL	7.00
4	FOR 50 FEET, $2\frac{1}{2}$ -INCH, LINED LINEN OR MILL	7.00
5	FOR 100 FEET, $1\frac{1}{2}$ OR 2-INCH, LINED LINEN OR MILL	7.50
6	FOR 100 FEET, $2\frac{1}{2}$ -INCH, LINED LINEN OR MILL	8.00

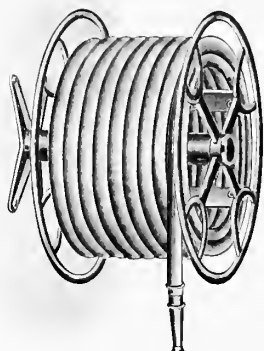


FIG. 1653. PLAIN WALL HOSE REEL.

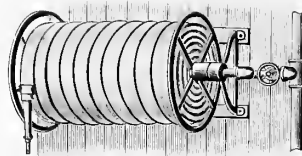


FIG. 1654. STATIONARY HOSE REEL.

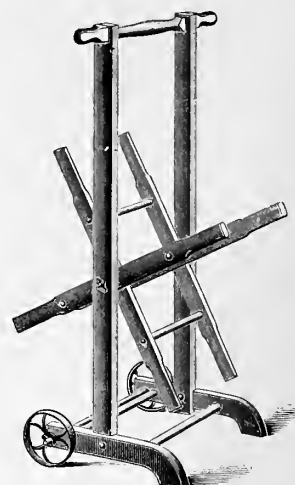


FIG. 1655. GARDEN HOSE REEL.

PLAIN WALL HOSE REELS.—Fig. 1653.

CAPACITY, ABOUT 150 FEET 2 $\frac{1}{2}$ -INCH LINEN HOSE	EACH	10.00
---	------	-------

STATIONARY HOSE REELS.—Fig. 1654.

FOR HOSE, SIZE	INCHES	2 $\frac{1}{2}$	2	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1	$\frac{3}{4}$
PRICE	EACH	20.00	20.00	18.00	15.00	12.00	12.00

These Reels will carry 100 feet of 2 $\frac{1}{2}$ -inch heavy Rubber Hose, or 200 feet of Linen Hose; other sizes in proportion. Supply connection fitted for Iron Pipe unless otherwise ordered. Hose Valves attached, extra.

GARDEN HOSE REELS.—Fig. 1655.

CAPACITY, 100 FEET $\frac{3}{4}$ -INCH HOSE	EACH	1.50
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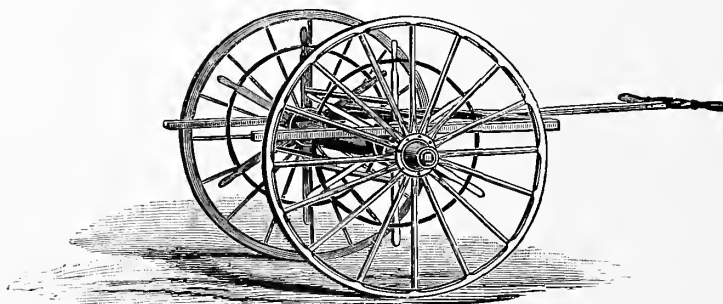


FIG. 1656. PORTABLE WAREHOUSE REEL.

PORTABLE WAREHOUSE REELS.—Fig. 1656.

NUMBER		1	2	3	4
SIZE OF WHEELS, DIAMETER	INCHES	56	48	42	30
CAPACITY, 2 $\frac{1}{2}$ -INCH HOSE	FEET	500	300	200	*
PRICE	EACH	35.00	30.00	25.00	12.00

*The small Reel No. 4 will carry 200 feet $\frac{3}{4}$ -inch Hose; 150 feet 1-inch, or 100 feet 1 $\frac{1}{2}$ -inch Hose.



FIG. 1658.



FIG. 1659.

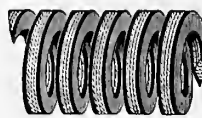


FIG. 1660.



FIG. 1661.

GARLOCK SECTIONAL RING PACKING. GARLOCK SPIRAL PACKING. GARLOCK ELASTIC RING PACKING.

RUBBER PACKING, CLOTH INSERTION.—Fig. 1658. CLOTH ON ONE OR BOTH SIDES.

THICKNESS.	INCHES	$\frac{1}{64}$	$\frac{1}{32}$	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$
1-PLY	PER POUND	.70	.65	.60	.55	---	---	---
2-PLY	PER POUND	---	---	.63	.58	.55	---	---
3-PLY	PER POUND	---	---	.66	.61	.58	.55	---
4-PLY	PER POUND	---	---	---	---	.61	.58	.55

There is one ply of cloth to every $\frac{1}{16}$ -inch thickness. Each cloth, whether insertion or on outside, to count as one ply. Three cents per pound additional will be charged for each extra ply of cloth.

GARLOCK PACKINGS.—Figs. 1659, 1660, and 1661.

PER POUND	1.20
-----------	------

Pure Sheet Packing, or Valve Gum, per pound, \$1.40.

Pure Sheet Packing, or Valve Gum, is made 36 inches in width, and of any thickness or length desired.

For cutting rubber, use a sharp knife and keep it wet.

We carry in stock three grades, XX, XXX, and XXXX, the latter being the best quality.

Self-Vulcanizing Packing, N. F. Brand, per pound, 80 cents.

Kept on hand, in sheets $\frac{1}{32}$, $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, and $\frac{1}{4}$ inches thick. Other sizes, Gaskets, Rings, etc., furnished on short notice.

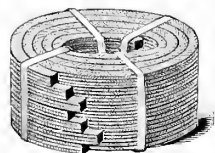
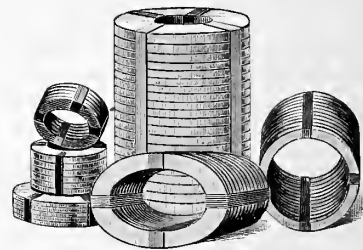
FIG. 1662.
ROUND PISTON PACKING.FIG. 1663.
SQUARE PISTON PACKING.FIG. 1664. SQUARE PISTON
PACKING, RUBBER BACK.

FIG. 1665. GASKETS.

FIGS. 1662 AND 1663.	PER POUND	.85
FIG. 1664	PER POUND	1.00
FIG. 1665. PURE RUBBER	PER POUND	1.50
FIG. 1665. CLOTH INSERTION	PER POUND	1.25

Figs. 1662 and 1663 are made in sizes $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, 1 $\frac{1}{8}$, 1 $\frac{1}{4}$, and 1 $\frac{1}{2}$ inches.

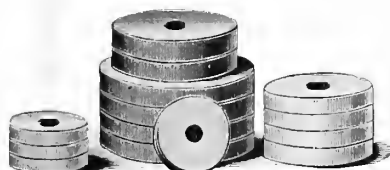


FIG. 1666. PURE RUBBER VALVES.

PURE RUBBER VALVES.—Fig. 1666.

DIAMETER.	INCHES	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6
THICKNESS	INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{4}$
SIZE OF HOLE.	INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{4}$

We have in stock three grades: Hard, for hot water; Medium and Soft, for cold water. Special Valves made to order. Price per pound, \$1.50.

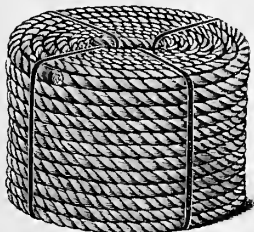


FIG. 1668. HEMP AND JUTE PACKING.

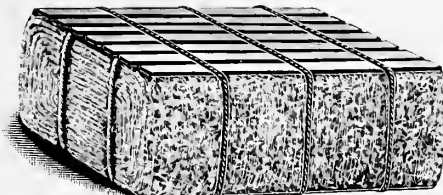


FIG. 1669. OAKUM.



FIG. 1670. COTTON WASTE.

HEMP, JUTE, AND PACKING.—Figs. 1668 and 1669.

ITALIAN HEMP, A	PER POUND	.20
AMERICAN EXTRA REFINED HEMP	PER POUND	.15
JUTE	PER POUND	.08
TARRED JUTE	PER POUND	.10
OAKUM	BALE (50 POUNDS)	5.00

Our Oakum and Jute Packings are carefully selected, and will be found particularly adapted for use in calking Cast-Iron Pipe. We use only Spun Navy Oakum.

COTTON WASTE, "Our Crescent" Brand.—Fig. 1670.

NUMBER	1	2	3
WHITE	.10	.09	----
COLOR	.08	.07	.06

We make a specialty of Cotton Waste for use of Water Works and Electric Light Plants, and recommend the use of "Our Crescent" No. 2 White Waste. For convenience of our trade we carry 500 and 50 pound bales. For less than full bales 1 cent per pound will be added to price.

MANILLA ROPE.

SIZE IN DIAMETER . INCHES	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{1}{4}$
WEIGHT OF 100 FEET . LBS.	3	4	5½	7	8	11	15	17	21	25	33	36	42	46
STRENGTH OF NEW ROPE, LBS.	450	750	900	1250	1700	2300	3000	4000	5000	5800	7000	8000	9200	11000
SIZE IN DIAMETER . INCHES	$1\frac{3}{8}$	$1\frac{7}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{7}{8}$	3	$3\frac{1}{2}$	----
WEIGHT OF 100 FEET . LBS.	54	62	67	84	100	120	142	170	192	217	243	276	350	----
STRENGTH OF NEW ROPE, LBS.	13500	15500	17000	19900	23500	29300	37000	42000	48000	54000	61000	67000	96000	----

Per pound, all sizes, 20 cents. A very large stock of all sizes always on hand. Hawser Laid Manilla Rope for oil and artesian well use.

Tallow Laid Manilla Rope laid up in three and four strands. We guarantee all our Manilla Rope to be made out of pure Manilla Hemp of the best quality.

MISCELLANEOUS PACKINGS.

EMPIRE GUM CORE PACKING, Square, Round, or Oval, on Reels, per pound	\$.50
EUREKA GUM CORE PACKING, Square, Round, or Oval, on Reels, per pound	.75
FLAX PACKING, Square, in box, per pound	.60
TUPPER'S FLAX PACKING, in box, per pound	.85
CANDLE WICKING, per pound	.25
JENKIN'S SHEET PACKING, per pound	.80
SELDEN'S GUM CORE PACKING, in Coils, per pound	.60
SELDEN'S CANVAS CORE PACKING, in Coils, per pound	.50
SOAPSTONE PACKING, on Reels, per pound	\$0.25
USUDURIAN SHEET PACKING, in Rolls, per pound	.80
VULCABESTOS ROPE PACKING, per pound	1.00
VULCABESTOS SHEET PACKING, per pound	1.00
CRANDALL PACKING, per pound	1.20
RAINBOW PACKING, per pound	.80
KNOWLTON IMPORTED RING PACKING, per pound	1.25
MANHATTAN, per pound	1.00
GOODSELL'S FLAX PACKING, per pound	1.50
RAWHIDE PACKING, per pound	2.00

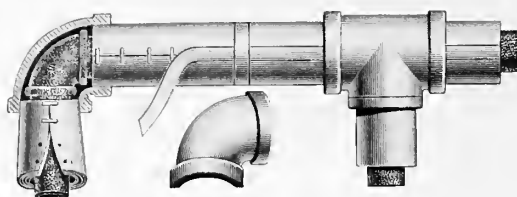


FIG. 1671.

REED'S FELT-ASBESTOS SECTIONAL COVERING.—Fig. 1671.**MADE OF HARD WOOLEN FELT AND LINED WITH ASBESTOS.**

INSIDE DIAM. OF PIPE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12
PRICE	PER LINEAL FOOT	.17	.19	.21	.23	.25	.27	.31	.35	.39	.41	.45	.50	.56	.65	.72	.78	.87	1.00
PRICE, ELBOW COVERS	EACH		.25	.25	.25	.25	.27	.30	.34	.38	.43	.47	.50	.56	.65	.72			
PRICE, TEE COVERS	EACH		.25	.28	.30	.32	.35	.40	.46	.52	.58	.63	.68	.77	.88	.96			

Staples for fastening and Strips to cover seams furnished without extra cost.

Made in 3-foot sections to fit all size pipes. Any one can apply it. Will not crack or crumble. A first-class non-conductor for steam or water pipes.



FIG. 1672.

MINERAL WOOL SECTIONAL COVERING.—Fig. 1672.**ABSOLUTELY FIRE-PROOF.**

INSIDE DIAM. OF PIPE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12
PRICE	PER LINEAL FOOT	.18	.19	.21	.23	.24	.25	.30	.35	.40	.43	.46	.50	.55	.63	.69	.75	.84	.95

This Covering is made of the best grade of Mineral Wool, Asbestos Lining, and Muslin Jacket. Made in 3-foot sections to fit all size pipes. Any one can apply it.

Covering for Boilers, Domes, Breeching, Heaters, Tanks, etc., made in blocks 18 x 8 inches (one square foot), price 30 cents each.

Elbow and Tee Molded Covers are not made of this Covering. If Sectional or Molded Elbow and Tee Covers are wanted, the Reed Covers (as shown above) can be used. Elbows and Tees may be covered by using loose materials, viz.: Asbestos Paper, Mineral Wool, and Muslin Jacket made up on the fittings, or they may be covered with Asbestos Cement.

One barrel of Asbestos Cement will cover about 60 fittings, sizes 1 to 4 inches.

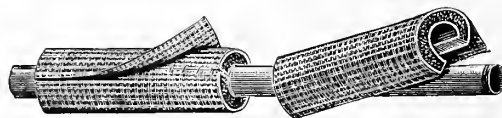


FIG. 1673.

HAIR FELT SECTIONAL COVERING.—Fig. 1673.

INSIDE DIAM. OF PIPE	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12
PRICE	PER LINEAL FOOT	.17	.18	.20	.21	.23	.26	.30	.33	.35	.39	.42	.47	.53	.58	.64	.70	.81	

This Covering is made of a select grade of Hair Felt, with Asbestos Lining and Corrugated Paper Jacket. Made in 3-foot sections to fit all size pipes. For low pressure steam, and hot and cold water pipes.

Elbow and Tee Molded Covers are not made of this Covering. If Sectional or Molded Elbow and Tee Covers are wanted, the Reed Covers (as shown above) can be used. Elbows and Tees may be covered by using loose materials, made up on the fittings, viz.: Asbestos Paper, Hair Felt, and Blue Corrugated Paper, or they may be covered with Asbestos Cement.

One Barrel of Cement will cover about 60 fittings, sizes 1 to 4 inches.

Asbestos Cement for covering Boilers, Domes, Drums, Breeching, Tanks, etc., price per barrel, \$4.00.

One barrel will cover about 25 square feet 1 $\frac{1}{2}$ inches thick.

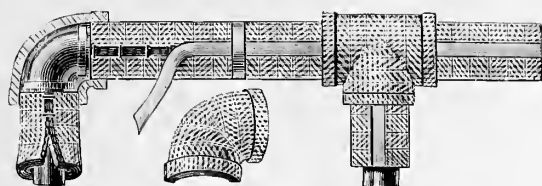


FIG. 1674. NATIONAL PIPE COVERING.



FIG. 1675. NATIONAL FITTING COVERING.

NATIONAL COVERINGS AND FITTINGS.—Figs. 1674 and 1675.

SIZE, INSIDE DIAMETER	INCHES	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10
COVERING	PER FOOT	.15	.15	.17	.18	.19	.22	.24	.28	.32	.34	.37	.38	.44	.50	.55	.60	.68
ELBOWS	EACH	.19	.19	.19	.19	.19	.22	.24	.28	.32	.34	.37	.38	.44	.50	.55	.60	.68
TEES	EACH	.27	.27	.27	.27	.27	.29	.33	.39	.43	.47	.50	.53	.60	.69	.77	.85	.94
VALVES	EACH	.20	.20	.20	.20	.20	.23	.33	.39	.43	.47	.50	.53	.60	.69	.77	.85	.94

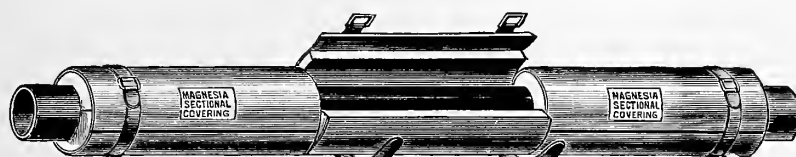


FIG. 1676. MAGNESIA COVERING.

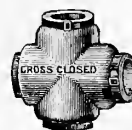


FIG. 1677.



FIG. 1678.



FIG. 1679.

MAGNESIA COVERINGS AND FITTINGS.

SIZE		$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10
PRICE	PER LINEAL FOOT	.15	.16	.18	.20	.22	.24	.27	.30	.34	.38	.42	.46	.50	.55	.60	.65	.75
ELBOWS AND 45°	EACH	.16	.20	.20	.20	.20	.22	.25	.29	.32	.35	.40	.46	.52	.66	.80	.88	1.00
TEES	EACH	.24	.26	.26	.26	.26	.29	.33	.38	.42	.47	.52	.60	.72	.96	1.08	1.20	1.40
GLOBE VALVES	EACH	.20	.20	.20	.20	.20	.22	.33	.38	.42	.47	.52	.60	.72	.96	1.08	1.20	1.40
CROSSES	EACH	.28	.34	.34	.34	.34	.38	.42	.48	.54	.60	.64	.72	.80	.88	.96	1.08	1.20

Magnesia Blocks (Beveled $1\frac{1}{2}$ inches thick, 6 inches wide, 36 inches long, or 3 inches wide by 18 inches long), 25 cents a square foot.

Staples, 12 cents a pound. Wire, 6 cents a pound. Paste, 10 cents a pound. Muslin, 40 cents a roll. Canvas, 20 cents a yard. Hot Blast (Dry), 5 cents a pound.

Magnesia Plastic Covering (Dry), per barrel, \$5.00.

HAIR FELT.—Fig. 1680.

IN ROLLS CONTAINING 300 SQUARE FEET.

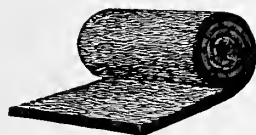


FIG. 1680.

$\frac{1}{2}$ INCH THICK	PER SQUARE FOOT	.09
$\frac{3}{4}$ INCH THICK	PER SQUARE FOOT	.10
1 INCH THICK	PER SQUARE FOOT	.11

MINERAL WOOL, per pound	\$0.05
UTICA CEMENT, per barrel	2.00
PORTLAND CEMENT, per barrel	4.00
EUREKA CEMENT, per barrel	3.00

ASBESTOS GOODS.

PISTON-ROD PACKING, per pound	\$0.40
GASKETS, any size or thickness to order.	
WICK PACKING, per pound	.40
SHEATHING OR BUILDING FELT, in rolls 36 inches wide, weight 100 pounds, either 1, 2, 3, or 4 ply thick, per pound	.10
MILL BOARD OR SHEET PACKING, sheets 40 x 40 inches, $\frac{3}{8}$ to $\frac{1}{2}$ inch thick, per pound	.12
CEMENT FELTING, for covering steam pipes, boilers, domes, heaters, tanks, etc., per barrel	4.00



FIG. 1681. SHALLOW-WELL PUMP, WITH IRON CONNECTING PIPE, OPEN TOP.

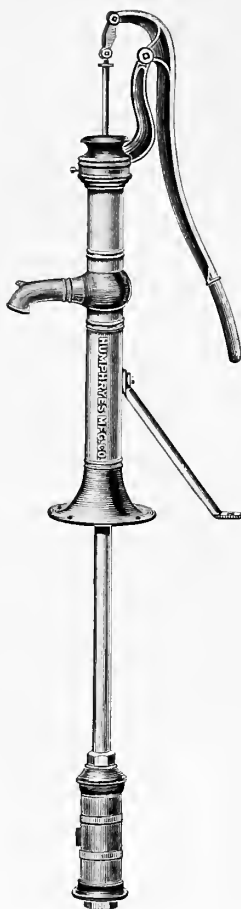


FIG. 1682. SHALLOW-WELL PUMP, WITH IRON CONNECTING PIPE, CLOSED TOP.

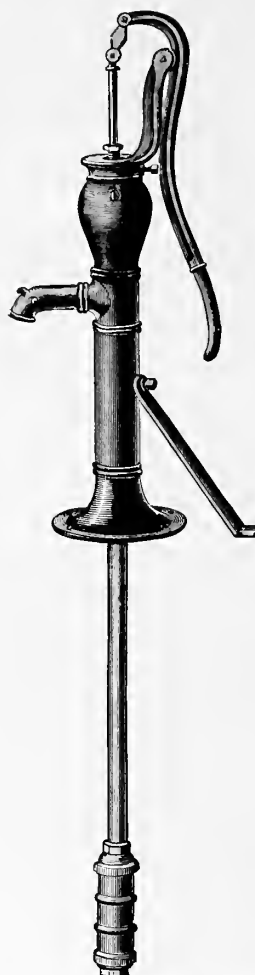


FIG. 1683. ANTI-FREEZING FORCE PUMP, WITH IRON CONNECTING PIPE.



FIG. 1684. ANTI-FREEZING FORCE PUMP, WITH IRON CONNECTING PIPE.

ANTI-FREEZING SHALLOW-WELL PUMPS.—Figs. 1681 and 1682.

NUMBER		2	3	4	5	6
SIZE CYLINDER	INCHES	2½ x 10	2¾ x 10	3 x 10	3¼ x 10	3½ x 10
SIZE SUCTION PIPE	INCHES	1½	1¾	1½	1¾	1½
FIG. 1681	EACH	8.00	8.25	8.50	8.75	9.25
FIG. 1682	EACH	8.75	9.00	9.25	9.50	10.00

Fig. 1681 Pump is used largely in wells from 20 to 30 feet deep. The Cylinder is 4 feet below the base.

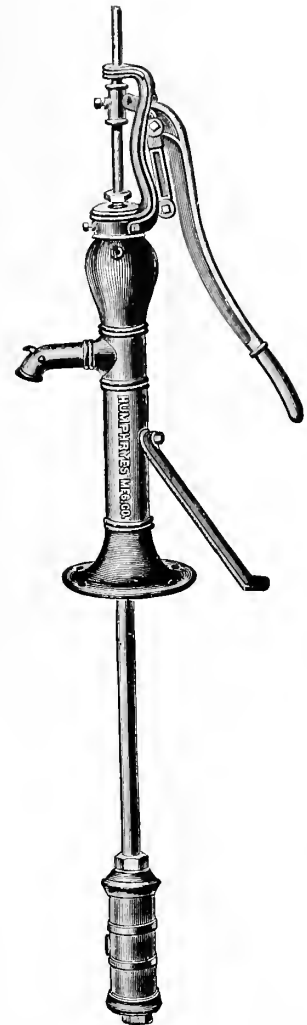
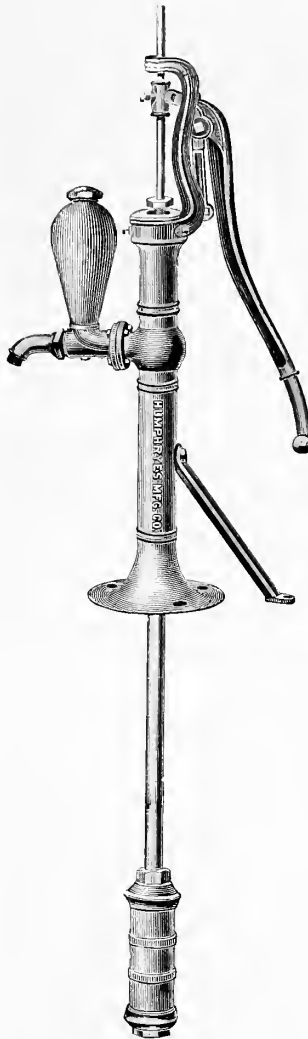
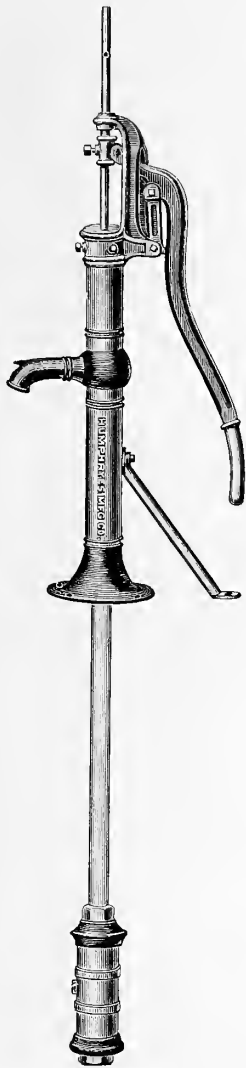
Fig. 1682 Pump is same as Fig. 1681, except that it has a Tight Top instead of an Open Top.

ANTI-FREEZING FORCE PUMPS.—Figs. 1683 and 1684.

FIGURE		1683	1684
CYLINDER	INCHES	3 x 10	3½ x 10
SUCTION PIPE	INCHES	1½	1¾
EACH		13.00	15.50

Fig. 1683 Force Pump is the most popular style made. It is easily worked and used in wells not exceeding 30 feet deep. It is an excellent Pump for watering lawns, washing windows, or for fire protection. It is fitted complete with wrought-iron set-length 4 feet from base and hole drilled to allow water to run out below the freezing point.

Fig. 1684 Pump is one of the best Force Pumps made, having the Air Chamber on spout instead of in the stock, makes a more handsome appearance than Fig. 1683, and by many is preferred on this account.

FIG. 1685. ANTI-FREEZING WINDMILL PUMP,
WITH CONNECTING PIPE.FIG. 1686. ANTI-FREEZING WINDMILL FORCE
PUMP, WITH CONNECTING PIPE.FIG. 1687. ANTI-FREEZING WINDMILL FORCE
PUMP, WITH CONNECTING PIPE.**ANTI-FREEZING WINDMILL PUMPS.—Fig. 1685.**

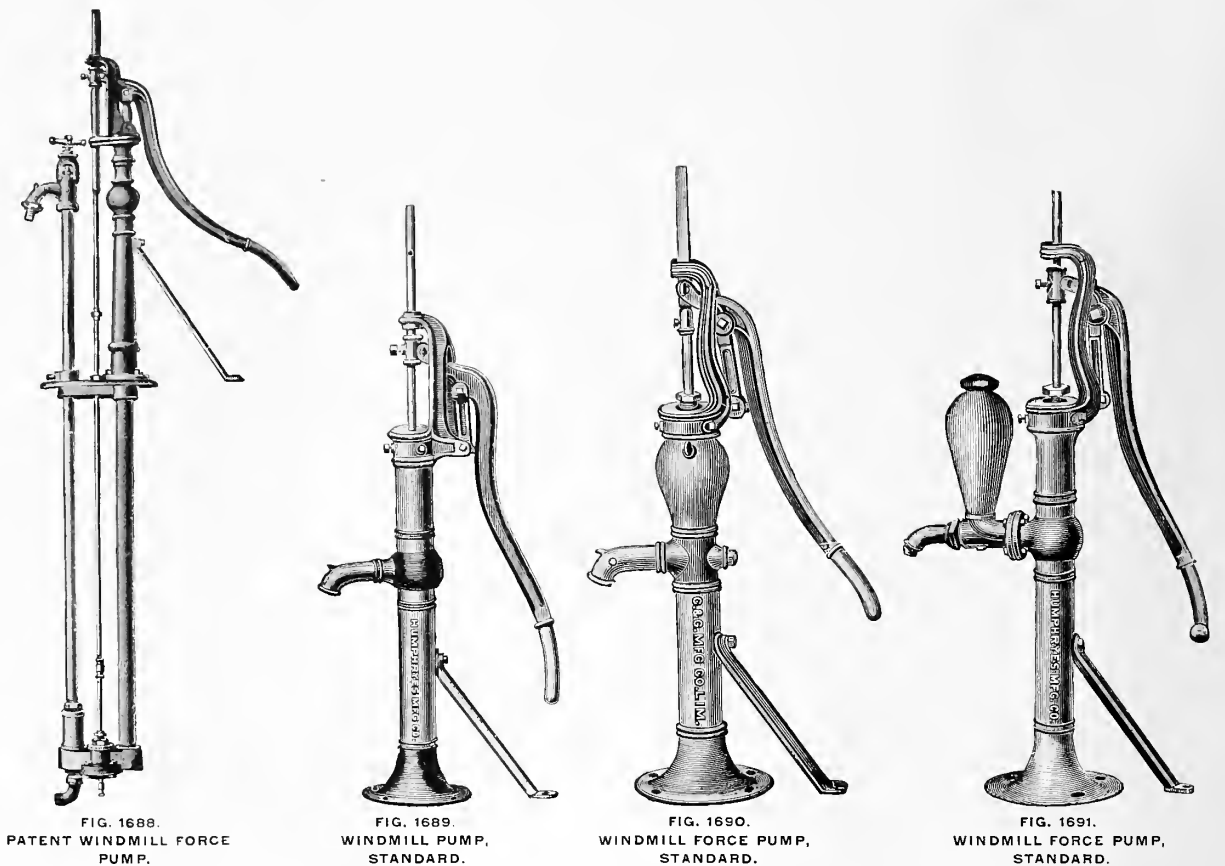
NUMBER	3	4	5	6
SIZE CYLINDER	2 $\frac{3}{4}$ x 10	3 x 10	3 $\frac{1}{2}$ x 10	3 $\frac{1}{2}$ x 10
SIZE SUCTION PIPE	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$
EACH	9.25	9.50	9.75	10.25

ANTI-FREEZING WINDMILL PUMPS.—Figs. 1686 and 1687.

FIG. 1686. CYLINDER 3 $\frac{1}{2}$ x 10 INCHES	EACH	16.00
FIG. 1687. CYLINDER 3 x 10 INCHES	EACH	13.50

Fig. 1686 represents the same Pump as is illustrated under Fig. 1684 (see page 400), but with the addition of a Windmill Head, making it work much more easily, and with less wear on the working parts.

Fig. 1687 represents the same Pump as is illustrated under Fig. 1683 (see page 400), with the addition of a Windmill Head, making it work much more easily, and with less wear on the working parts. It is also fitted with back outlet opposite the spout, so it can be used to pump water into tank by closing spout.



PATENT WINDMILL FORCE PUMPS.—Fig. 1688.

NUMBER	1	2	3	4
SIZE OF STROKE	6	10	6	10
SIZE OF SUCTION	1 1/4	1 1/4	2	2
EACH	16.00	17.50	18.00	19.50

This Three-way Pump has given excellent satisfaction. The valve is very simple, but strong and durable. For Cylinders suitable for this Pump, see page 405.

WINDMILL STANDARDS.— Figs. 1689, 1690, and 1691.

NUMBER	1	2	3	4	5	6	7
SIZE OF SUCTION PIPE	1 1/4	2	1 1/4	1 1/4	1 1/4	2	2
SIZE OF STROKE	6	10	6	6	6	10	10
FIG. 1689	---	---	7.00	7.50	8.00	9.00	9.50
FIG. 1690	10.00	11.50	---	---	---	---	---
FIG. 1691	13.00	14.50	---	---	---	---	---

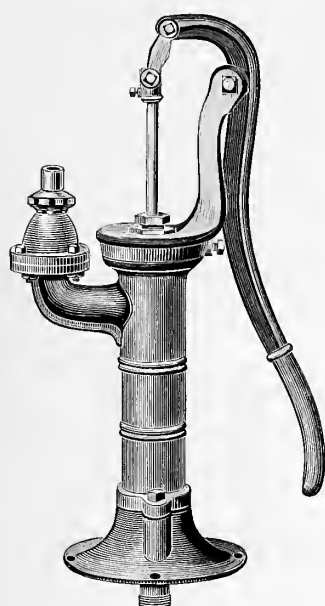


FIG. 1694. FORCE PUMP ON BASE.

FORCE PUMPS.—Fig. 1694.

NUMBER	1	2	3	4	5
DIAMETER OF CYLINDER	2	2½	3	3½	4
SIZE OF SUCTION AND DISCHARGE	1½	1½	1½	1½	2
IRON CYLINDER	8.00	9.50	11.00	17.00	18.00
BRASS CYLINDER	13.50	14.00	15.00	24.00	30.00

These Pumps have Revolving Fulcrum, Check Valve, and Brass Piston Rod.
We can furnish Fig. 1694 Force Pump on Plank at same price.

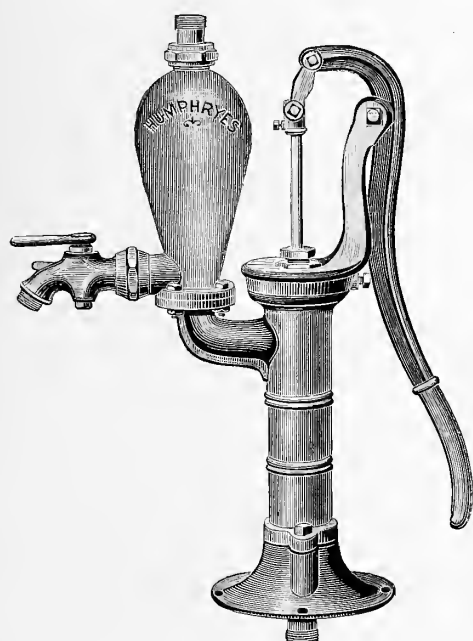


FIG. 1696. FORCE PUMP ON BASE, WITH COCK.

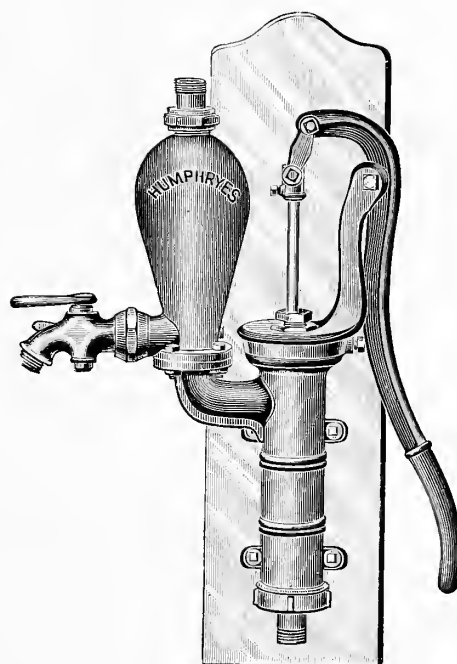


FIG. 1697. FORCE PUMP ON PLANK, WITH COCK.

FORCE PUMPS.—Figs. 1696 and 1697.

NUMBER	2	3	4	5
DIAMETER OF CYLINDER	2½	3	3½	4
SIZE OF SUCTION AND DISCHARGE	1½	1½	1½	2
IRON CYLINDER	12.50	14.50	21.50	22.50
BRASS CYLINDER	18.00	19.50	29.50	35.50

These Pumps have Revolving Fulcrum, Air Chamber, and Brass Piston Rod.

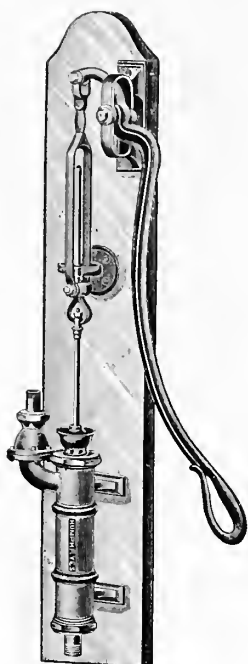


FIG. 1698. HOUSE FORCE PUMP
ON PLANK, WITH CONNECTING
ROD AND GUIDE.

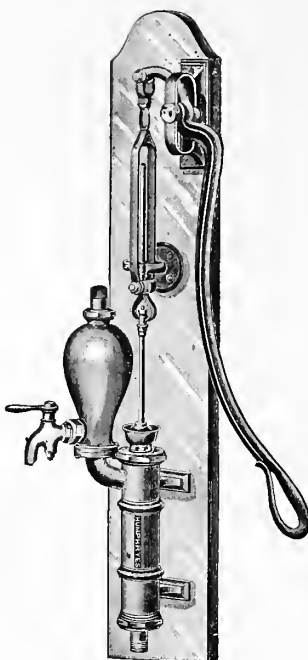


FIG. 1699. HOUSE FORCE PUMP
ON PLANK, WITH AIR-CHAMBER AND COCK,
CONNECTING ROD AND GUIDE.

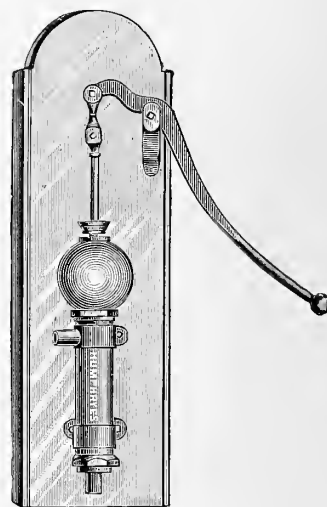


FIG. 1700. BRASS HOUSE FORCE PUMP.

HOUSE SUCTION AND FORCE PUMPS.—Figs. 1698, 1699, and 1700.

NUMBER	1	2	3	4
SIZE OF CYLINDER	2	2½	3	3½
SIZE OF SUCTION AND DISCHARGE	1¼	1¼	1¼	1½
FIG. 1698. IRON CYLINDER	14.00	15.00	16.50	22.00
FIG. 1699. IRON CYLINDER	18.00	19.00	22.00	28.50
FIG. 1698. BRASS CYLINDER	18.00	20.00	22.00	32.00
FIG. 1699. BRASS CYLINDER	27.00	28.00	30.60	40.00
FIG. 1700. BRASS	20.00	---	---	---

Fig. 1700 Pump is used largely to raise water to upper floors of buildings when the water pressure is not heavy enough to force it up.

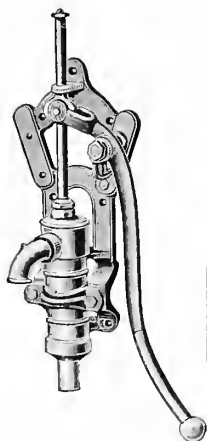


FIG. 1701. BRASS CITY LIFT
AND FORCE PUMP,
WITH SPOUT.

CITY BRASS LIFT AND FORCE PUMPS.—Figs. 1701 and 1702.

FIG. 1701. 2-INCH CYLINDER, FOR 1-INCH PIPE	EACH	7.00
FIG. 1702. 2-INCH CYLINDER, FOR 1-INCH PIPE, WITH COUPLING	EACH	7.00
IRON EXTENSION FRAME	EACH	5.00

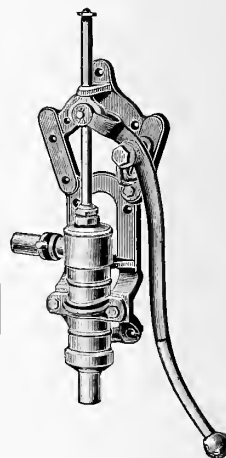


FIG. 1702. BRASS CITY LIFT
AND FORCE PUMP,
WITH COUPLING.

**IMPROVED SIPHON FORCE PUMPS.—Figs. 1703 and 1704.
FOR DEEP OR SHALLOW WELLS.**

NUMBER	2	4	6	8	10	12	14
DIAMETER OF CYLINDER - - - INCHES	2½	3	3½	4	4½	5	5½
SUCTION AND DISCHARGE - - - INCHES	1¼	1½	2	2	2½	2½	3
CAPACITY PER STROKE - - - GALLONS	1 6	1 4	1 3	2 3	2 3	4 8	1
EACH	24.00	25.25	27.25	30.50	45.00	50.00	56.00



FIG. 1703. IMPROVED
SIPHON FORCE PUMP.

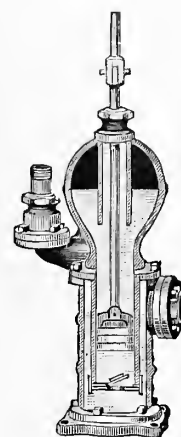


FIG. 1704. SECTIONAL.



FIG. 1705.
PUMP CYLINDER.



FIG. 1706. DEEP WELL
PUMP CYLINDER.

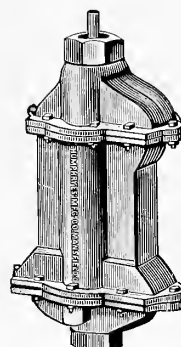


FIG. 1707.
DOUBLE ACTING CYLINDER.



FIG. 1708.
WOOD PUMP CYLINDER

PUMP CYLINDERS.—Figs. 1705 and 1706.

SIZE	INCHES	2 x 10	2¼ x 10	2½ x 10	2¾ x 10	3 x 10	3¼ x 10	3½ x 10	4 x 10	2 x 12	2¼ x 12
IRON	EACH	3.75	4.00	4.35	4.70	5.00	5.30	5.60	6.50	5.50	5.75
IRON BODY, BRASS-LINED	EACH	4.00	7.25	7.25	8.25	8.75	9.25	9.75	10.50	7.50	8.00
BRASS BODY AND PLUNGER	EACH	7.50	7.75	8.00	8.50	9.00	9.75	10.50	14.00	8.00	8.25
SIZE	INCHES	2½ x 12	2¾ x 12	3 x 12	3¼ x 12	3½ x 12	4 x 12	2 x 14	2¼ x 14	2½ x 14	2¾ x 14
IRON	EACH	6.00	6.50	7.00	7.50	8.00	9.25	6.00	6.25	6.50	7.00
IRON BODY, BRASS-LINED	EACH	8.50	9.00	9.50	10.00	10.50	12.50	8.25	8.75	9.25	9.75
BRASS BODY AND PLUNGER	EACH	8.50	9.00	9.50	10.25	11.25	15.00	9.75	10.25	10.50	11.25
SIZE	INCHES	3 x 14	3¼ x 14	3½ x 14	4 x 14	4½ x 14	5 x 14	2 x 16	2¼ x 16	2½ x 16	2¾ x 16
IRON	EACH	7.50	8.00	8.50	10.00	12.50	14.25	6.00	6.50	7.00	7.50
IRON BODY, BRASS-LINED	EACH	10.25	10.75	10.75	14.00	17.00	21.00	9.00	9.50	10.00	10.50
BRASS BODY AND PLUNGER	EACH	11.75	12.75	14.75	19.00	NOT MADE	NOT MADE	10.50	11.25	11.75	12.25
SIZE	INCHES	3 x 16	3¼ x 16	3½ x 16	4 x 16	4½ x 16	5 x 16	6 x 16	----	----	----
IRON	EACH	8.00	8.50	9.00	10.50	14.00	17.00	23.00	----	----	----
IRON BODY, BRASS-LINED	EACH	11.00	11.50	12.00	15.75	18.75	23.50	29.50	----	----	----
BRASS BODY AND PLUNGER	EACH	12.25	14.00	16.00	20.50	26.50	31.00	42.00	----	----	----

PUMP CYLINDERS.—Figs. 1707 and 1708.

SIZE	INCHES	3 x 11½	3¼ x 11½	3½ x 11½	2½	3	4
FIG. 1707	EACH	----	----	----	10.00	12.00	14.00
FIG. 1708	EACH	3.00	4.00	4.50	----	----	----

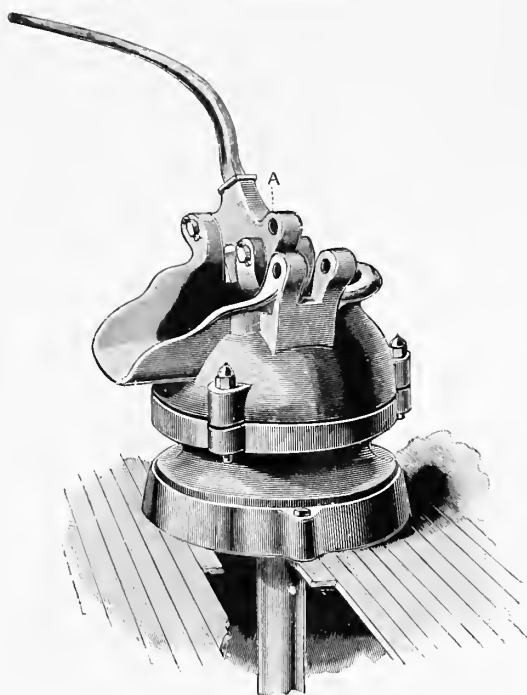


FIG. 1710. BOTTOM SUCTION.

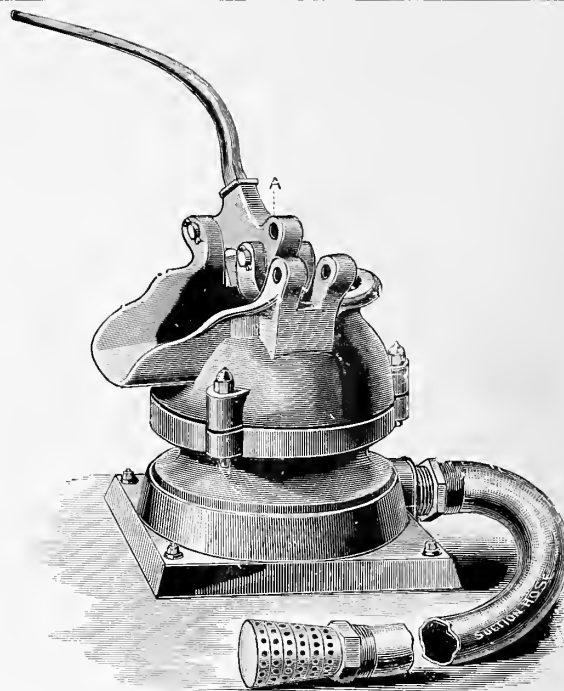


FIG. 1711. SIDE SUCTION.

DIAPHRAGM TRENCH PUMPS.—Figs. 1710 and 1711.

NUMBER	1	2
SIZE OF SUCTION	2 $\frac{1}{2}$ INCHES	3
CAPACITY	4 $\frac{1}{2}$ GALLONS PER STROKE	1 $\frac{1}{2}$
FIG. 1710	22.00 EACH	24.00
FIG. 1711	— EACH	30.00

Price, 12 feet of 3-inch Spiral Flat-wired Suction Hose (specially made for this purpose), fitted with Brass Strainer, Hose, Nipple, and Couplings, complete, \$35.00; extra Diaphragms, net, \$3.00.

These Pumps are the best made for use in raising a large quantity of water by hand power, and they can be used on the muddiest or filthiest water. We fit them complete, with Suction Hose and Strainers, when so ordered.

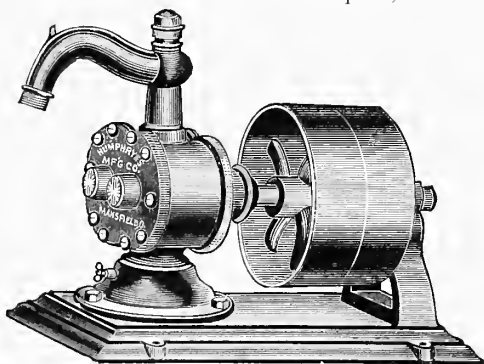


FIG. 1712. POWER ROTARY FORCE PUMP.

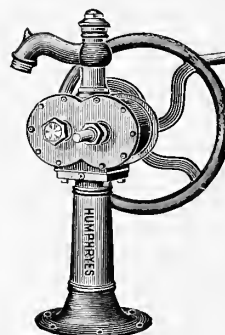
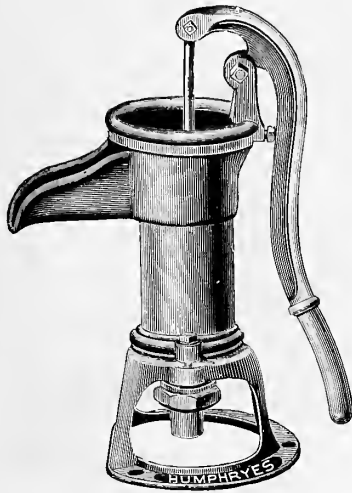
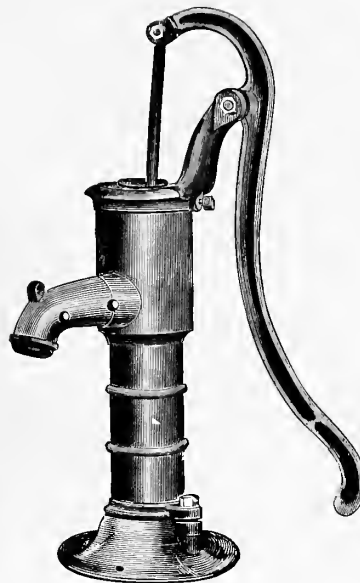
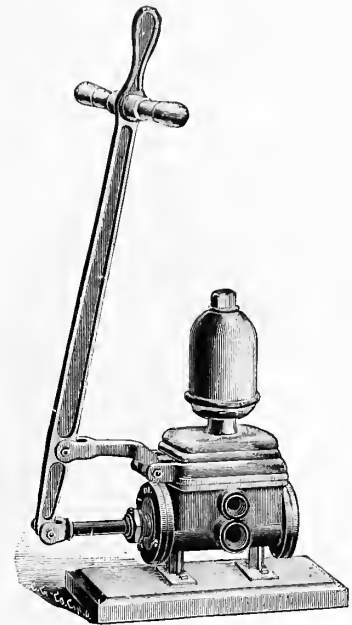


FIG. 1713. HAND ROTARY FORCE PUMP.

ROTARY FORCE PUMPS.—Figs. 1712 and 1713.

NUMBER	1	2	3	4	5	6
SIZE OF SUCTION	1 $\frac{1}{4}$ INCHES	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	3
GALLONS PER MINUTE	1 100 REVOLUTIONS	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
FIG. 1712. POWER ROTARY	27.00 EACH	32.00	38.00	48.00	54.00	65.00
FIG. 1713. HAND ROTARY	19.00 EACH	22.00	26.00	35.00	40.00	50.00

FIG. 1714.
PITCHER SPOUT PUMP.FIG. 1715.
REVOLVING-TOP CISTERN PUMP.FIG. 1716. HORIZONTAL DOUBLE-ACTING
FORCE PUMP.

PITCHER SPOUT PUMPS.— Fig. 1714.

NUMBER		1	2	2 A	3	4	5
DIAMETER CYLINDER	INCHES	2½	3	3	3½	4	4½
SIZE SUCTION	INCHES	1	1¼	1½	1¾	1½	2
EACH		4.25	4.75	4.25	5.25	5.75	6.25

Pump No. 2A is of less weight than the Standard No. 2, but is equally as strong and efficient.

REVOLVING-TOP CISTERN PUMPS.— Fig. 1715.

NUMBER		0	1	2	3	4	5	6	8
DIAMETER CYLINDER	INCHES	2	2¼	2½	2¾	3	3¼	3½	4
SIZE SUCTION	INCHES	1	1	1¼	1½	1¾	1½	1½	2
IRON	EACH	3.50	4.00	4.50	5.00	5.50	6.50	8.00	10.00
BRASS CYLINDER	EACH	5.50	6.00	7.00	8.00	10.00	13.00	18.00	25.00

HORIZONTAL PUMPS.— Fig. 1716.

NUMBER		2	4	6	8
DIAMETER OF CYLINDER	INCHES	2½	3	3½	4
DOUBLE SUCTION	INCHES	1½	1¾	1½	1½
DOUBLE DISCHARGE	INCHES	1	1	1¼	1¼
STROKE	INCHES	5	5	5	5
CAPACITY PER REVOLUTION	GALLONS	½	¾	¾	½
FLOOR SPACE	INCHES	8 x 20	8 x 20	8 x 20	8 x 20
EACH		16.00	18.00	24.00	31.00



FIG. 1718. PORTABLE GREENHOUSE PUMP.

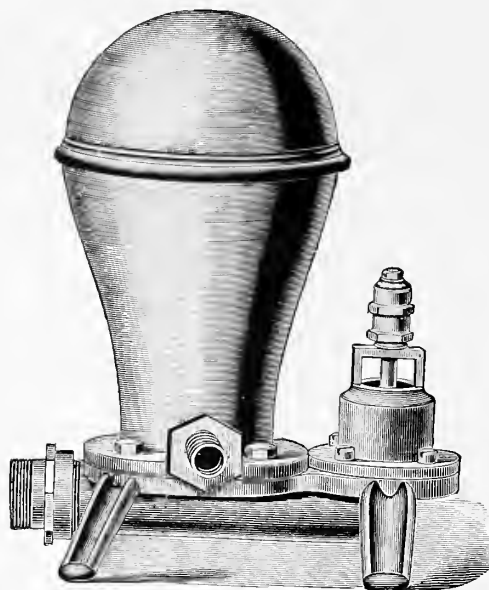


FIG. 1719. IMPROVED HYDRAULIC RAM.

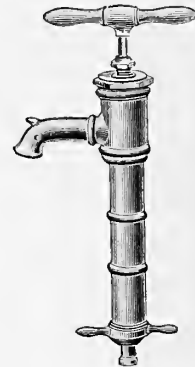


FIG. 1720. IMPROVED GAS DRIP PUMP. FOR GAS COMPANIES.

IMPROVED HYDRAULIC RAMS.—Fig. 1719.

NUMBER	2	3	4	5	6	7	8
QUANTITY WATER FURNISHED TO RAM PER MINUTE, GALLONS	1 to 2	2 to 4	3 to 7	6 to 10	11 to 25	25 to 45	25 to 75
LENGTH OF DRIVE PIPE FEET	25 to 50	25 to 50	25 to 50	25 to 50	25 to 50	25 to 50	25 to 50
SIZE OF DRIVE PIPE INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	2	$2\frac{1}{2}$	3	6
SIZE OF DISCHARGE PIPE INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH	9.00	11.00	14.00	22.00	40.00	75.00	125.00

RULE TO FIND HOW MANY GALLONS OF WATER PER MINUTE CAN BE RAISED BY OUR HYDRAULIC RAM.

Multiply the quantity supplied by the Spring (in gallons per minute) by 65. Multiply this product by the "Head," or numbered feet in the fall; then divide by 100 times the height to which the water is to be elevated. The result will give the quantity of water raised per minute in gallons or fraction of gallons.

GREENHOUSE AND GAS DRIP PUMPS.—Figs. 1718 and 1720.

FIG. 1718. COMPLETE, WITH SUCTION HOSE AND DISCHARGE PIPE	EACH	9.00
FIG. 1720	EACH	15.00

Fig. 1718 represents our New Double-Acting Portable Hand Force Pump, fitted with Suction Hose, to draw water or other liquids from a pail or other source of supply, and Discharge Hose, with a Nozzle and Rose Sprinkler for distributing the same for whatever purpose desired.

Fig. 1720 is constructed of Brass, has Stuffing Box at top to prevent overflow, and is designed particularly for pumping gas drips. Length of Piston Rods, 13 inches; length of Pump (over all), 24 inches; diameter of Cylinder (inside), 2 inches. Fitted for $\frac{3}{4}$ or 1 inch iron pipe, as ordered.



FIG. 1721. TANK FLOAT VALVE.



FIG. 1722. ENTERPRISE FLOAT VALVE.



FIG. 1723. TANK FLOAT VALVE.

TANK FLOAT VALVES.—Figs. 1721, 1722, and 1723.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIGS. 1721 AND 1723	EACH	.80	.80	1.00	---	---
FIG. 1722	EACH	1.25	1.40	1.50	3.00	5.00

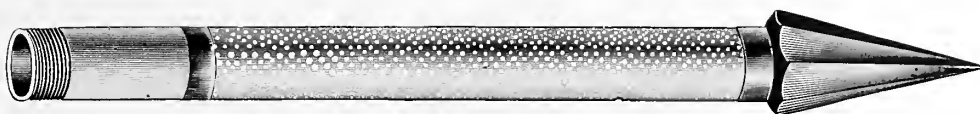


FIG. 1724.

BRASS JACKET POINTS, MADE OF GALVANIZED IRON PIPE.—Fig. 1724.

Trade Number.	Diameter. Inches.	Length of Point. Inches.	Length of Jacket. Inches.	Number of Holes.	60 Gauge. Per Dozen.	70 Gauge. Per Dozen.	80 Gauge. Per Dozen.	90 Gauge. Per Dozen.	100 Gauge. Per Dozen.
74	1	24	18	72	33.00	40.00	46.00	52.00	62.00
76	1	30	24	96	42.00	49.00	56.00	64.00	78.00
78	1	36	30	120	51.00	59.00	66.00	76.00	94.00
80	1	42	36	144	60.00	68.00	76.00	88.00	120.00
82	1	48	42	168	69.00	78.00	86.00	100.00	136.00
84	1	54	48	192	78.00	87.00	96.00	112.00	152.00
86	1 1/4	20	14	80	30.00	36.00	42.00	50.00	64.00
90	1 1/4	24	18	100	36.00	44.00	52.00	60.00	80.00
94	1 1/4	30	24	130	46.00	55.00	64.00	75.00	100.00
98	1 1/4	36	30	165	56.00	66.00	76.00	90.00	120.00
100	1 1/4	42	36	200	66.00	77.00	88.00	105.00	140.00
102	1 1/4	48	42	270	76.00	88.00	100.00	120.00	160.00
106	1 1/4	54	48	260	86.00	99.00	112.00	135.00	180.00
110	1 1/4	60	54	290	96.00	110.00	124.00	150.00	200.00
112	1 1/4	66	60	320	106.00	121.00	136.00	165.00	220.00
114	1 1/4	72	66	350	116.00	132.00	148.00	180.00	240.00
136	1 1/2	24	18	120	48.00	57.00	65.00	78.00	94.00
140	1 1/2	30	24	162	60.00	70.00	80.00	96.00	118.00
144	1 1/2	36	30	198	72.00	84.00	95.00	114.00	142.00
146	1 1/2	42	36	240	84.00	97.00	110.00	132.00	166.00
148	1 1/2	48	42	276	96.00	111.00	125.00	150.00	188.00
150	1 1/2	54	48	312	108.00	124.00	140.00	168.00	204.00
152	1 1/2	60	54	348	120.00	138.00	155.00	186.00	228.00
154	1 1/2	66	60	384	132.00	151.00	170.00	204.00	252.00
156	1 1/2	72	66	420	144.00	165.00	185.00	222.00	276.00
160	2	24	18	144	75.00	85.00	94.00	110.00	130.00
164	2	30	24	208	90.00	101.00	112.00	132.00	160.00
168	2	36	30	264	105.00	118.00	130.00	154.00	190.00
170	2	42	36	288	120.00	134.00	148.00	176.00	220.00
172	2	48	42	336	135.00	151.00	166.00	198.00	250.00
174	2	54	48	384	150.00	167.00	184.00	220.00	280.00
176	2	60	54	432	165.00	184.00	202.00	242.00	310.00
178	2	66	60	480	180.00	200.00	220.00	264.00	340.00
180	2	72	66	528	195.00	217.00	238.00	286.00	370.00
184	2 1/2	36	30	300	180.00	205.00	230.00	260.00	300.00
188	2 1/2	48	42	360	230.00	265.00	300.00	340.00	400.00
192	2 1/2	60	54	420	280.00	325.00	370.00	420.00	500.00
196	2 1/2	72	66	480	330.00	385.00	440.00	500.00	600.00
200	3	36	30	300	240.00	275.00	310.00	340.00	410.00
204	3	48	42	420	300.00	345.00	390.00	430.00	520.00
208	3	60	54	540	360.00	415.00	470.00	520.00	630.00
212	3	72	66	660	420.00	485.00	550.00	610.00	740.00
216	4	48	36	360	480.00	520.00	560.00	600.00	700.00
220	4	72	60	600	630.00	695.00	760.00	840.00	1000.00
224	4	96	84	840	780.00	870.00	960.00	1080.00	1300.00
228	4	120	108	1080	930.00	1045.00	1160.00	1320.00	1600.00

We make 5 and 6 inch Points, both in Plain and Galvanized Pipe, and will quote prices on application.



FIG. 1725. STRAINER.

STRAINERS FOR WROUGHT-IRON PIPE.—Fig. 1725.

1 AND 1 1/4 INCH, PLAIN	EACH	.25
1 AND 1 1/4 INCH, GAUZE COVERED	EACH	.40

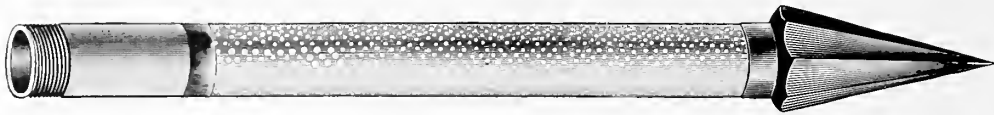


FIG. 1726. OPEN CENTER DRIVE-WELL POINT.

OPEN CENTER DRIVE-WELL POINTS.—Fig. 1726.

Trade Number.	Diameter, Inches.	Length of Point, Inches.	Length of Jacket, Inches.	60 Gauge, Per Dozen.	70 Gauge, Per Dozen.	80 Gauge, Per Dozen.	90 Gauge, Per Dozen.	100 Gauge, Per Dozen.
7	1 1/4	24	18	36.00	44.00	52.00	60.00	80.00
9	1 1/4	30	24	46.00	55.00	64.00	75.00	100.00
11	1 1/4	36	30	56.00	66.00	76.00	90.00	120.00
15	1 1/4	42	36	66.00	77.00	88.00	105.00	140.00
21	1 1/2	24	18	48.00	57.00	65.00	78.00	94.00
23	1 1/2	30	24	60.00	70.00	80.00	96.00	118.00
29	1 1/2	36	30	72.00	84.00	95.00	114.00	142.00
30	1 1/2	42	36	84.00	97.00	110.00	132.00	166.00
31	2	24	18	75.00	85.00	94.00	110.00	130.00
33	2	30	24	90.00	101.00	112.00	132.00	160.00
35	2	36	30	105.00	118.00	130.00	154.00	190.00

OPEN CENTER POINTS FOR TUBULAR WELLS.

Trade Number.	GAUZE	60	70	80	90	100
13	FLUSH 1 1/4, 30 INCHES LONG, 24-INCH JACKET	46.00	55.00	64.00	75.00	100.00
14	FLUSH 1 1/4, 36 INCHES LONG, 30-INCH JACKET	56.00	60.00	76.00	90.00	120.00

WASHER POINTS.

Trade Number.	Diameter, Inches.	Length of Pipe, Inches.	Number of Holes.	60 Gauge, Per Dozen.	70 Gauge, Per Dozen.	80 Gauge, Per Dozen.	90 Gauge, Per Dozen.	100 Gauge, Per Dozen.
300	1 1/4	20	50	30.00	36.00	42.00	50.00	64.00
301	1 1/4	24	60	36.00	44.00	52.00	60.00	80.00
302	1 1/4	30	80	46.00	55.00	64.00	75.00	100.00
303	1 1/4	36	100	56.00	66.00	76.00	90.00	120.00
304	1 1/4	42	120	66.00	77.00	88.00	105.00	140.00
305	1 1/4	48	140	76.00	88.00	100.00	120.00	160.00
320	1 1/2	24	80	48.00	57.00	65.00	78.00	94.00
321	1 1/2	30	110	60.00	70.00	80.00	96.00	118.00
322	1 1/2	36	130	72.00	84.00	95.00	114.00	142.00
323	1 1/2	42	150	84.00	97.00	110.00	132.00	160.00
324	2	30	140	90.00	101.00	112.00	132.00	160.00
325	2	36	170	105.00	118.00	130.00	154.00	190.00
326	2	42	220	120.00	134.00	148.00	176.00	220.00

PERFORATED SHEET BRASS.

WIDTH	INCHES	4 3/8	5 1/8	6	7 1/8	9	11	12	14
SUITABLE FOR POINTS	INCHES	1	1 1/4	1 1/2	2	2 1/2	3	---	---
PER LINEAL FOOT		.14	.18	.20	.25	.30	.35	.40	.44

No. 2 Perforated Sheet Brass, per square foot, 85 cents.

BRASS WIRE CLOTH.

MESH BRASS WIRE CLOTH	NUMBER	40	50	60	80	90	100	120
MADE FROM WIRE	NUMBER	33	35	36	38	39	40	40
PRICE	PER SQUARE FOOT	.55	.58	.60	.90	1.10	1.30	1.50

TOOLS.

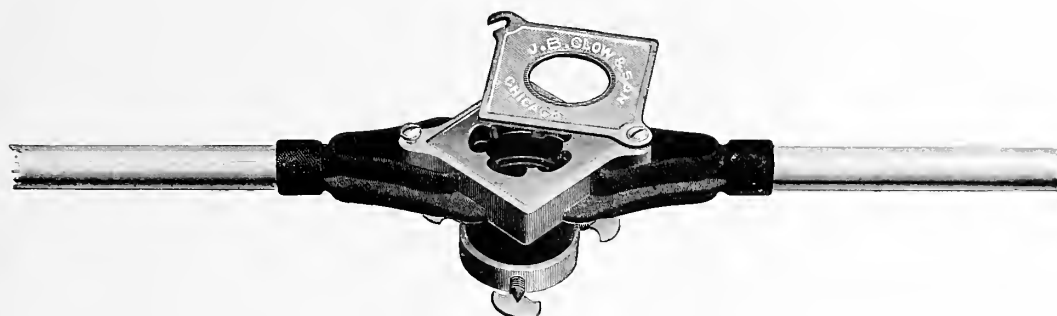


FIG. 1732. DIE PLATE.

DIE PLATES.—Fig. 1732.
WITH HILL'S PATENT SOLID DIES.

Numbers.	Threads.	Dimensions of Dies.	Die Plate Complete.	Without Dies.	Extra Dies.	Extra Bushings.	Extra Die Frames.
00 FOR BRASS PIPE	$\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$	$2 \times 2 \times \frac{1}{2}$	13.50	3.50	2.00	.25	----
0	$\frac{1}{2}$ to $\frac{1}{8}$	$2 \times 2 \times \frac{1}{2}$	9.50	3.50	1.50	.25	----
1	$\frac{1}{4}$ to 1	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{4}$	15.00	5.00	2.00	.35	.30
$1\frac{1}{2}$	$\frac{3}{4}$ to $1\frac{1}{4}$	$3 \times 3 \times \frac{3}{4}$	13.50	6.00	2.50	.45	.40
$1\frac{3}{4}$	1 to $1\frac{1}{2}$	$3 \times 3 \times \frac{3}{4}$	13.50	6.00	2.50	.45	.40
2	$1\frac{1}{4}$, $1\frac{1}{2}$, and 2	$4 \times 4 \times \frac{7}{8}$	20.00	9.50	3.50	.60	.50
3, 2-ARM	$2\frac{1}{2}$ and 3	$5 \times 5 \times 1\frac{1}{4}$	43.00	25.00	9.00	1.00	.60
4, 4-ARM	$2\frac{1}{2}$ and 3	$5 \times 5 \times 1\frac{1}{4}$	51.00	33.00	9.00	1.00	.60

No. 2 and larger have Leader Screw.

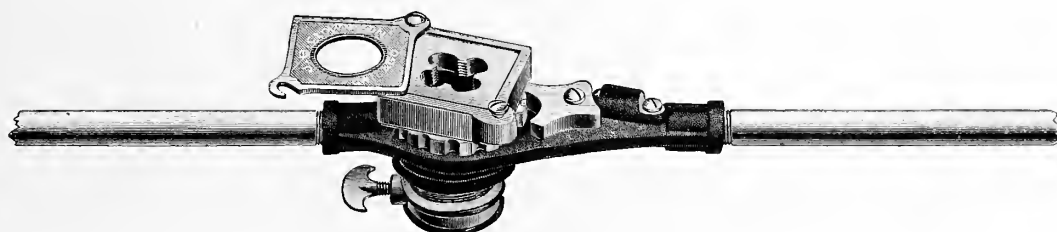


FIG. 1733. MILLER'S REVERSIBLE RATCHET DIE PLATE.

MILLER'S REVERSIBLE RATCHET DIE PLATES.—Fig. 1733.
WITH HILL'S PATENT SOLID DIES.

Numbers.	Threads.	Dimensions of Dies.	Die Plate Complete.	Without Dies.	Extra Dies.	Extra Bushings.	Extra Die Frames.
A	$\frac{1}{8}$ to $\frac{3}{4}$	$2 \times 2 \times \frac{1}{2}$	13.00	7.50	1.10	.20	----
B	$\frac{1}{4}$ to 1	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{4}$	15.00	7.50	1.50	.25	.22
C	1 to $1\frac{1}{2}$	$3 \times 3 \times \frac{3}{4}$	18.50	13.00	1.80	.35	.30
D	$1\frac{1}{4}$ to 2	$4 \times 4 \times \frac{7}{8}$	20.00	12.50	2.50	.45	.38
E	$2\frac{1}{2}$ and 3	$5 \times 5 \times 1\frac{1}{4}$	43.00	29.00	7.00	.75	.45

C, D, and E have Leader Screws.

TOOLS.

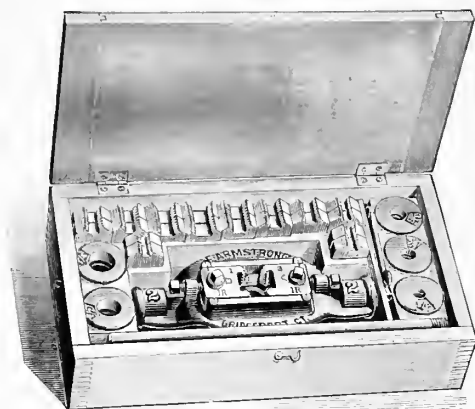


FIG. 1734. ARMSTRONG STOCK AND DIES, NO. 1

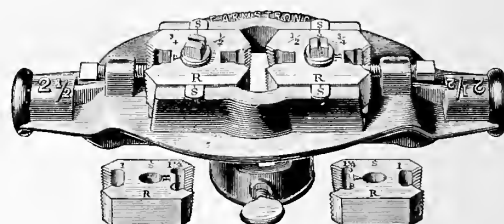


FIG. 1735. ARMSTRONG STOCK AND DIES, NO. 2 1/2.

ARMSTRONG'S ADJUSTABLE STOCKS AND DIES.—Figs. 1734 and 1735.

NUMBER	1	2	2 1/2	3	4	6	7
THREADS	1 to 2	1 to 1	1 to 1 1/4	1 1/4 to 2	1 1/4 to 2	2 1/2 and 3	2 1/2 to 4
COMPLETE	9.00	12.00	12.00	20.00	18.00	40.00	60.00
STOCK ONLY	3.00	3.50	4.50	7.00	7.50	25.00	—
EXTRA DIES	1.20	1.50	3.00	4.00	3.00	15.00	16.00
EXTRA BUSHINGS	.20	.25	.40	.50	.50	1.00	1.50
EXTRA WRENCHES	.25	.25	.25	.50	---	.50	.75

NOTE.—No. 4 Stock is a sectional stock. Nos. 2 1/2, 6, and 7 Stocks are fitted with double-ended dies. Nos. 1 and 2 Stocks are packed in cases, as shown in Fig. 1734. Nos. 6 and 7 have four arms.

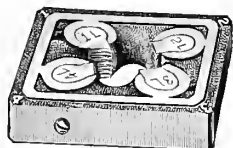


FIG. 1736. SECTIONAL DIE.



FIG. 1737. CUTTERS.

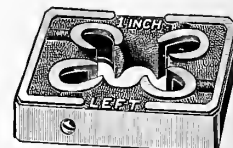


FIG. 1738. SHOWING CUTTERS REMOVED.

ARMSTRONG'S SECTIONAL DIES.—Figs. 1736, 1737, and 1738.

DIE COMPLETE, EITHER RIGHT OR LEFT	EACH	3.00
BLOCK ONLY	EACH	1.00
CUTTERS PER SET, RIGHT OR LEFT	EACH	2.00

These Dies are intended to take the place of the Solid Steel Dies, and will fit any Stock that takes a Die 4 x 4 x 1, and are made in four sizes only—1, 1 1/4, 1 1/2, and 2 inches, both Right and Left.

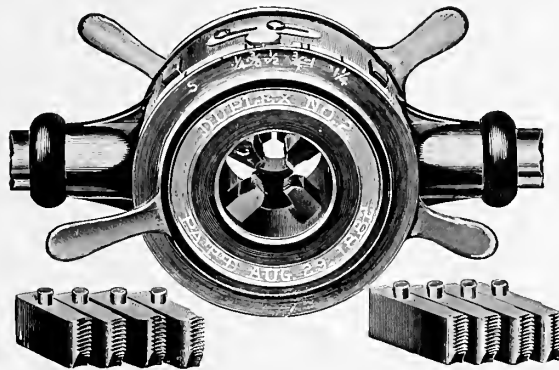
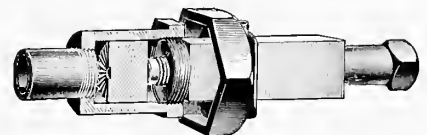


FIG. 1739.

"DUPLEX" ADJUSTABLE DIE STOCKS.—Fig. 1739.

NUMBER	1	2	3	3½	4	5
CUTS AND THREADS INCHES	$\frac{1}{8}$ to $\frac{3}{8}$	$\frac{1}{4}$ to $1\frac{1}{4}$	1 to 2	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4
WITHOUT CUT-OFF EACH	13.00	17.00	22.00	25.00	40.00	55.00
WITH CUT-OFF EACH	16.00	20.00	25.00	28.00	45.00	60.00
EXTRA DIES PER SET	1.50	1.75	2.00	2.00	3.50	4.00
EXTRA KNIVES EACH	.50	.50	.50	.50	.75	.75

FIG. 1740. GLEASON'S PATENT
SCROLL DIE AND TAPS.FIG. 1741.
PUMP ROD, STOCK AND DIES.FIG. 1742.
ASHLEY NIPPLE HOLDER.**GLEASON'S PATENT SCROLL DIES AND TAPS.—Fig. 1740.**

EACH	15.00
TAPS, $\frac{1}{4}$ TO $\frac{3}{8}$ INCH EACH	1.00
TAPS, $\frac{7}{16}$ TO $\frac{1}{2}$ INCH EACH	1.35

Arranged to thread Brass Pipe of all sizes, from $\frac{5}{16}$ to $\frac{1}{2}$ inch. Warranted the cheapest and best Tool for the purpose in use.

PUMP ROD, STOCKS AND DIES, AND ASHLEY NIPPLE HOLDERS.—Figs. 1741 and 1742.

FIG. 1741. CUTS $\frac{3}{8}$ AND $\frac{7}{16}$ PUMP ROD, WITH DIES COMPLETE EACH	5.00
FIG. 1742. FOR NIPPLES, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, AND 1 INCH COMPLETE EACH	15.00
FIG. 1742. FOR NIPPLES, $1\frac{1}{4}$, $1\frac{1}{2}$, AND 2 INCH COMPLETE EACH	20.00

FIG. 1743.
PIPE TAP.FIG. 1744.
PIPE REAMER.FIG. 1745.
COMBINED TAP, REAMER, AND DRILLFIG. 1746.
PIPE DRILL.**PIPE TAPS, REAMERS, AND DRILLS.**

SIZE	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FIG. 1743. TAPS EACH	1.12	1.25	1.50	1.87	2.50	3.12	3.75	4.62	6.25	10.50	15.00
FIG. 1744. REAMERS EACH	---	1.25	1.50	1.87	2.50	3.12	3.75	4.62	6.25	10.50	15.00
FIG. 1745. COMBINED TAP, REAMER, AND DRILL EACH	---	2.50	2.50	3.00	4.50	6.00	7.25	8.50	10.75	---	---
FIG. 1746. DRILLS EACH	.75	.75	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.75	4.75



FIG 1747 STANWOOD IMPROVED CUTTER.

STANWOOD IMPROVED PIPE CUTTERS.—Fig. 1747.

NUMBER		1	2	3
CUTS PIPE	INCHES	$\frac{1}{4}$ to 1	$\frac{3}{4}$ to 2	2 to 3
EACH		1.50	2.25	7.00
EXTRA BLOCKS AND WHEELS	EACH	.45	.60	1.25
EXTRA WHEELS	EACH	.12	.18	.25
PINS	EACH	.05	.05	.08



FIG. 1748. SAUNDERS PIPE CUTTER

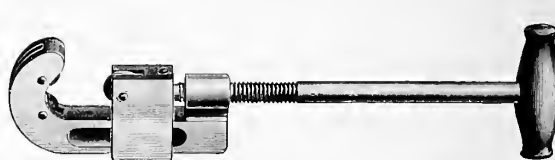


FIG. 1749. BARNES 3-WHEEL PIPE CUTTER.

SAUNDERS PIPE CUTTERS.—Fig. 1748.

NUMBER		1	2	3
CUTS PIPE	INCHES	$\frac{1}{4}$ to 1	1 to 2	2 to 3
EACH		3.00	4.50	14.00
EXTRA BLOCKS AND WHEELS	EACH	1.25	1.75	3.25
EXTRA WHEELS	EACH	.24	.32	.60
EXTRA ROLLERS	EACH	.24	.32	.50

BARNES 3-WHEEL PIPE CUTTERS.—Fig. 1749.

NUMBER		1	2	3	4	5	6	7
CUTS PIPE	INCHES	$\frac{1}{4}$ to 1	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4	4 to 6	6 to 8	9 to 12
EACH		4.50	6.00	10.00	20.00	30.00	40.00	50.00
EXTRA WHEELS	EACH	.25	.30	.40	.50	.75	.75	.75
EXTRA WHEEL PINS	PER DOZEN	1.00	1.00	1.00	2.00	2.00	2.00	2.00



FIG 1750. MILLER'S REVERSIBLE RATCHET PIPE CUTTER.

MILLER'S REVERSIBLE RATCHET PIPE CUTTERS.—Fig. 1750.

NUMBER		0	1	$1\frac{1}{2}$	2	3
CUTS PIPE	INCHES	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{2}$ to 1	1 to $1\frac{1}{2}$	$1\frac{1}{4}$ to 2	$2\frac{1}{2}$ to 3
EACH		6.75	8.50	10.00	11.00	16.00
EXTRA WHEELS	EACH	.12	.18	.18	.25	.40

TOOLS.



FIG. 1751. STILLSON WRENCH, 6 TO 18 INCHES.

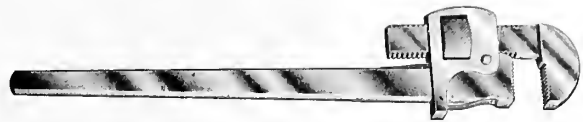


FIG. 1752. STILLSON WRENCH, 24 TO 48 INCHES.



FIG. 1753. STILLSON JAW.



FIG. 1754. STILLSON FRAME.



FIG. 1755. STILLSON HANDLE.



FIG. 1756. STILLSON NUT.

STILLSON WRENCHES.—Figs. 1751 and 1752.

LENGTH WHEN OPEN	INCHES	6	8	10	14	18	24	36	48
GRIPS	INCHES	$\frac{1}{8}$ wire to $\frac{1}{2}$ pipe	$\frac{1}{8}$ wire to $\frac{3}{4}$ pipe	$\frac{1}{8}$ wire to 1 pipe	$\frac{1}{4}$ wire to $1\frac{1}{2}$ pipe	$\frac{1}{4}$ wire to 2 pipe	$\frac{1}{4}$ wire to $2\frac{1}{2}$ pipe	$\frac{1}{4}$ pipe to $3\frac{1}{2}$ pipe	1 pipe to 5 pipe
	INCHES	$\frac{1}{2}$ pipe	$\frac{3}{4}$ pipe	1 pipe	$1\frac{1}{2}$ pipe	2 pipe	$2\frac{1}{2}$ pipe	$3\frac{1}{2}$ pipe	5 pipe
EACH		2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00

REPAIRS FOR STILLSON WRENCHES.

SIZE	INCHES	6	8	10	14	18	24	36	48
JAWS	EACH	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
FRAMES	EACH	.25	.25	.33	.45	.55	.65	.75	1.00
HANDLES	EACH	.15	.15	.20	.25	.30	---	---	---
NUTS	EACH	.20	.20	.27	.35	.42	.50	.65	.80



FIG. 1757. TRIMO PIPE WRENCH.

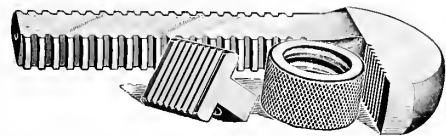


FIG. 1758. REPAIRS FOR TRIMO WRENCH.

TRIMO WRENCHES.—Fig. 1757.

LENGTH WHEN OPEN	INCHES	6	8	10	14	18	24	36	48
GRIPS	INCHES	$\frac{1}{8}$ wire to $\frac{1}{2}$ pipe	$\frac{1}{8}$ wire to $\frac{3}{4}$ pipe	$\frac{1}{8}$ wire to 1 pipe	$\frac{1}{4}$ wire to $1\frac{1}{2}$ pipe	$\frac{1}{4}$ wire to 2 pipe	$\frac{1}{4}$ wire to $2\frac{1}{2}$ pipe	$\frac{1}{4}$ pipe to $3\frac{1}{2}$ pipe	1 pipe to 5 pipe
	INCHES	$\frac{1}{2}$ pipe	$\frac{3}{4}$ pipe	1 pipe	$1\frac{1}{2}$ pipe	2 pipe	$2\frac{1}{2}$ pipe	$3\frac{1}{2}$ pipe	5 pipe
EACH		2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00

REPAIRS FOR TRIMO WRENCHES.—Fig. 1758.

SIZE	INCHES	6	8	10	14	18	24	36	48
JAWS	EACH	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
NUTS	EACH	.20	.20	.27	.35	.42	.50	.65	.80
INSERTED JAWS	EACH	.25	.25	.33	.50	.55	.65	1.00	1.25
FRAMES	EACH	.25	.25	.33	.45	.55	.65	.75	1.00

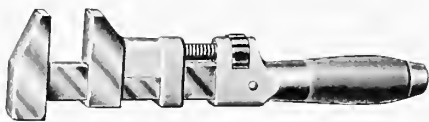


FIG. 1759. ENGINEER'S WRENCH.



FIG. 1760. PEASE COMBINATION PLIERS.



FIG. 1761. GAS PLIERS.

WRENCHES AND PLIERS.—Figs. 1759, 1760, and 1761.

SIZE	INCHES	5	6	7	8	9	10	12	14	15	16	18	21
FIG. 1759. BLACK	PER DOZEN	9.00	10.00	12.00	14.00	24.00	30.00	36.00					
FIG. 1760. POLISHED	EACH	1.25	1.55	1.65	1.70	1.80	1.90	1.10	1.45	2.00			
FIG. 1761. POLISHED	EACH	.40	.55	.65	.70	.80	.90	1.10	1.45	2.00			



FIG. 1762. ROBBINS' CHAIN TONGS.

ROBBINS' CHAIN TONGS.—Fig. 1762.

NUMBER	2	3	4	5	6	7
LENGTH OF LEVER	27	36	48	60	72	84
WEIGHT	4	12	24	33	50	100
FOR PIPE	1 to 2	1 1/4 to 4	2 to 6	2 1/2 to 8	4 to 10	4 to 16
EACH	5.50	6.25	9.00	12.50	16.00	30.00



FIG. 1763. BROCK'S CHAIN TONGS.

BROCK'S PATENT CHAIN TONGS.—Fig. 1763.

NUMBER	0	1	2	3	3 1/2	4	5
LENGTH	12 1/2	20	27	37	44	50	64
WEIGHT	1 1/2	4 1/2	8	15	20	28	47
FOR PIPE	1/8 to 3/4	1/2 to 1 1/2	1/4 to 2 1/2	3/4 to 4	1 to 6	1 to 8	2 to 14
EACH	2.50	3.50	5.50	7.50	9.00	11.00	18.00
EXTRA CHAINS	.75	1.00	1.50	2.50	3.25	4.00	6.00
EXTRA JAWS	1.00	1.75	2.75	4.00	4.75	5.00	7.50



FIG. 1764. COMMON TONGS.

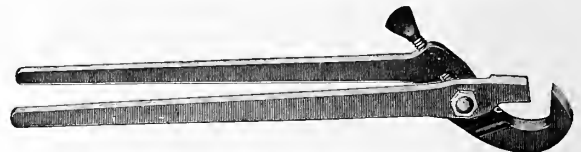


FIG. 1765. BROWN'S ADJUSTABLE TONGS.

COMMON TONGS.—Fig. 1764.

SIZE	INCHES	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
EACH		.60	.65	.70	.75	.90	1.10	1.30	1.50	1.90	2.50	4.25	5.25	6.25

BROWN'S ADJUSTABLE TONGS.—Fig. 1765.

NUMBER	1	1 1/2	2	3	4	5	6	7
FOR PIPE	1/8 to 3/4	3/8 to 1	1/2 to 1 1/4	1 to 2	1 1/2 to 3	2 1/2 to 4	3 to 5	4 to 7
EACH	1.30	1.65	2.00	3.00	6.00	11.00	25.00	35.00

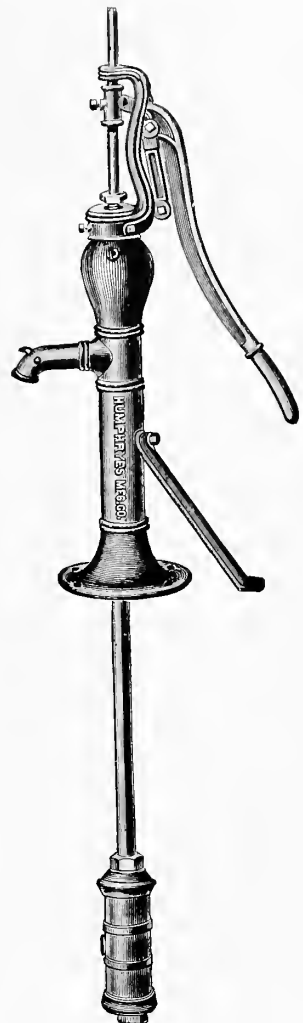
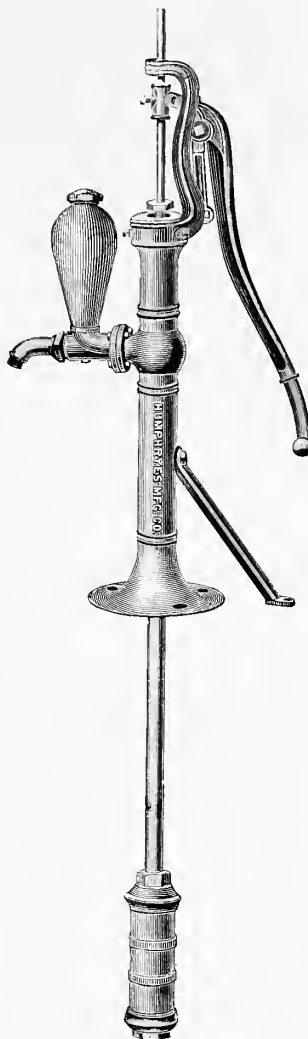
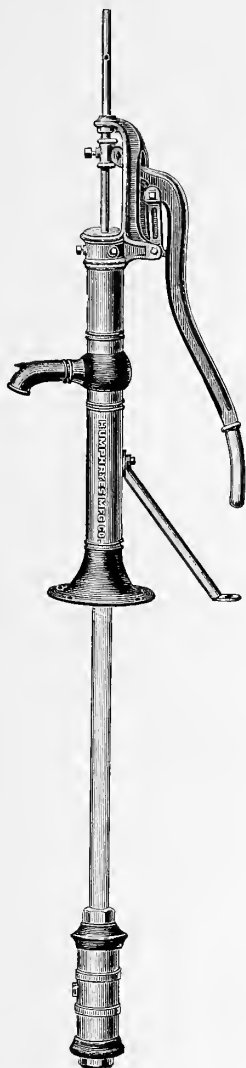


FIG. 1685. ANTI-FREEZING WINDMILL PUMP, WITH CONNECTING PIPE.

FIG. 1686. ANTI-FREEZING WINDMILL FORCE PUMP, WITH CONNECTING PIPE.

FIG. 1687. ANTI-FREEZING WINDMILL FORCE PUMP, WITH CONNECTING PIPE.

ANTI-FREEZING WINDMILL PUMPS.—Fig. 1685.

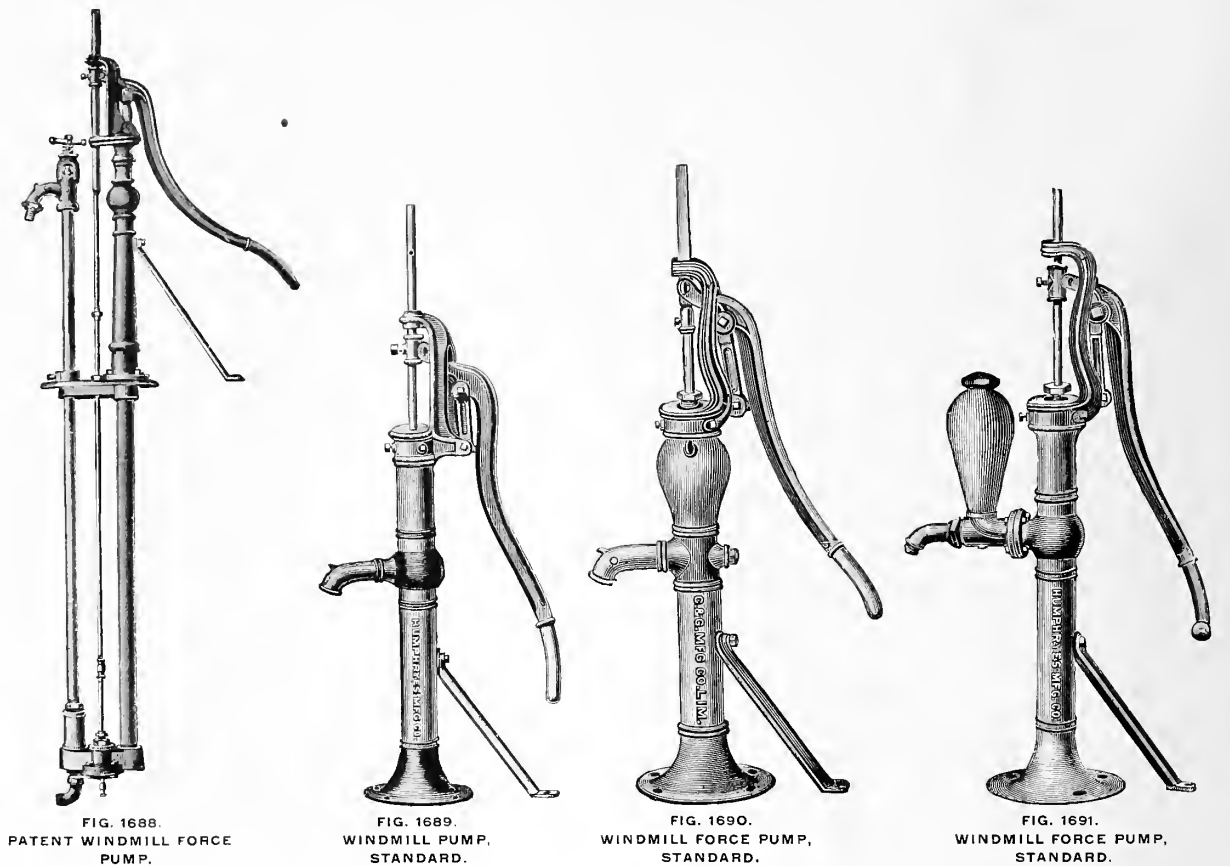
NUMBER	3	4	5	6
SIZE CYLINDER	2 3/4 x 10	3 x 10	3 1/4 x 10	3 1/2 x 10
SIZE SUCTION PIPE	1 1/4	1 1/4	1 1/4	1 1/4
EACH	9.25	9.50	9.75	10.25

ANTI-FREEZING WINDMILL PUMPS.—Figs. 1686 and 1687.

FIG. 1686. CYLINDER 3 1/4 x 10 INCHES	EACH	16.00
FIG. 1687. CYLINDER 3 x 10 INCHES	EACH	13.50

Fig. 1686 represents the same Pump as is illustrated under Fig. 1684 (see page 400), but with the addition of a Windmill Head, making it work much more easily, and with less wear on the working parts.

Fig. 1687 represents the same Pump as is illustrated under Fig. 1683 (see page 400), with the addition of a Windmill Head, making it work much more easily, and with less wear on the working parts. It is also fitted with back outlet opposite the spout, so it can be used to pump water into tank by closing spout.



PATENT WINDMILL FORCE PUMPS.—Fig. 1688.

NUMBER	1	2	3	4
SIZE OF STROKE	6	10	6	10
SIZE OF SUCTION	1 $\frac{1}{4}$	1 $\frac{1}{4}$	2	2
EACH	16.00	17.50	18.00	19.50

This Three-way Pump has given excellent satisfaction. The valve is very simple, but strong and durable. For Cylinders suitable for this Pump, see page 405.

WINDMILL STANDARDS.—Figs. 1689, 1690, and 1691.

NUMBER	1	2	3	4	5	6	7
SIZE OF SUCTION PIPE	1 $\frac{1}{4}$	2	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	2	2
SIZE OF STROKE	6	10	6	6	6	10	10
FIG. 1689	---	---	7.00	7.50	8.00	9.00	9.50
FIG. 1690	10.00	11.50	---	---	---	---	---
FIG. 1691	13.00	14.50	---	---	---	---	---

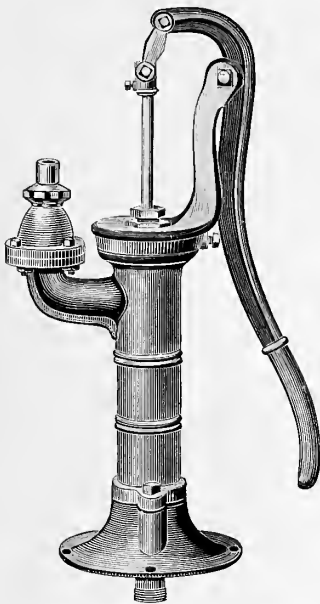


FIG. 1694. FORCE PUMP ON BASE.

FORCE PUMPS.—Fig. 1694.

NUMBER.	1	2	3	4	5
DIAMETER OF CYLINDER INCHES	2	2½	3	3½	4
SIZE OF SUCTION AND DISCHARGE INCHES	1¼	1¼	1¼	1½	2
IRON CYLINDER EACH	8.00	9.50	11.00	17.00	18.00
BRASS CYLINDER EACH	13.50	14.00	15.00	24.00	30.00

These Pumps have Revolving Fulcrum, Check Valve, and Brass Piston Rod.
We can furnish Fig. 1694 Force Pump on Plank at same price.

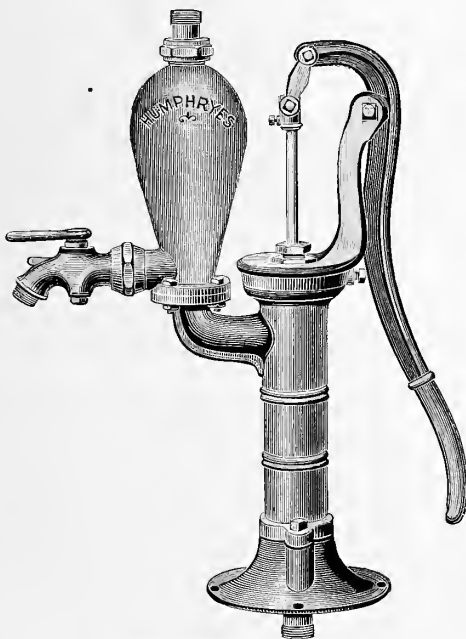


FIG. 1696. FORCE PUMP ON BASE, WITH COCK.

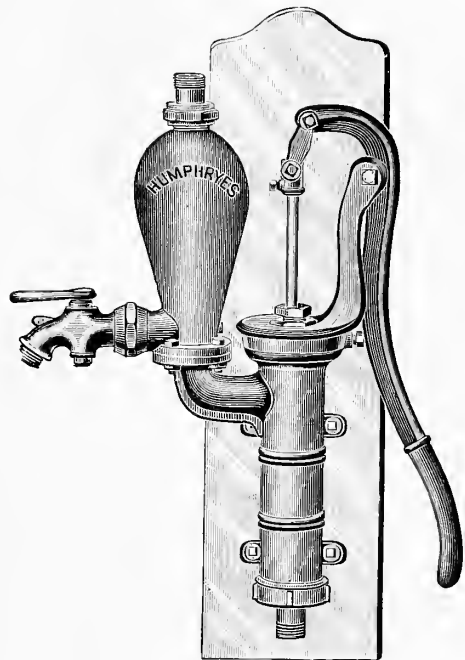


FIG. 1697. FORCE PUMP ON PLANK, WITH COCK.

FORCE PUMPS.—Figs. 1696 and 1697.

NUMBER	2	3	4	5
DIAMETER OF CYLINDER INCHES	2½	3	3½	4
SIZE OF SUCTION AND DISCHARGE INCHES	1¼	1¼	1½	2
IRON CYLINDER EACH	12.50	14.50	21.50	22.50
BRASS CYLINDER EACH	18.00	19.50	29.50	35.50

These Pumps have Revolving Fulcrum, Air Chamber, and Brass Piston Rod.

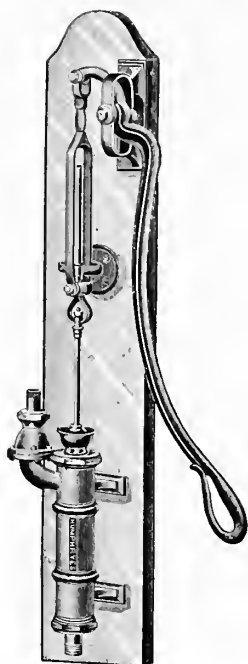


FIG. 1698. HOUSE FORCE PUMP
ON PLANK, WITH CONNECTING
ROD AND GUIDE.

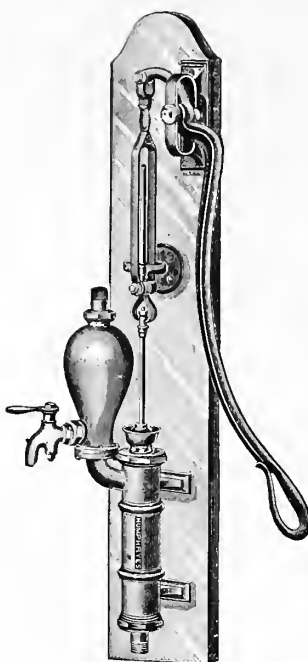


FIG. 1699. HOUSE FORCE PUMP
ON PLANK, WITH AIR-CHAMBER AND COCK,
CONNECTING ROD AND GUIDE.

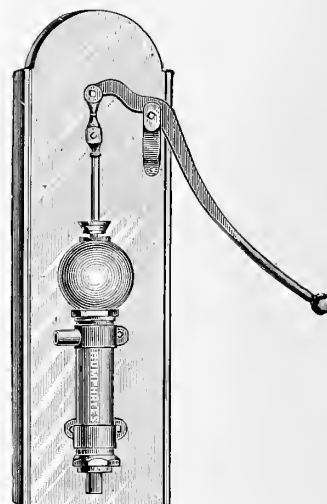


FIG. 1700. BRASS HOUSE FORCE PUMP.

HOUSE SUCTION AND FORCE PUMPS.—Figs. 1698, 1699, and 1700.

NUMBER	1	2	3	4
SIZE OF CYLINDER	2	2½	3	3½
SIZE OF SUCTION AND DISCHARGE	1¼	1¼	1¼	1½
FIG. 1698. IRON CYLINDER	14.00	15.00	16.50	22.00
FIG. 1699. IRON CYLINDER	18.00	19.00	22.00	28.50
FIG. 1698. BRASS CYLINDER	18.00	20.00	22.00	32.00
FIG. 1699. BRASS CYLINDER	27.00	28.00	30.60	40.00
FIG. 1700. BRASS	20.00	----	----	----

Fig. 1700 Pump is used largely to raise water to upper floors of buildings when the water pressure is not heavy enough to force it up.

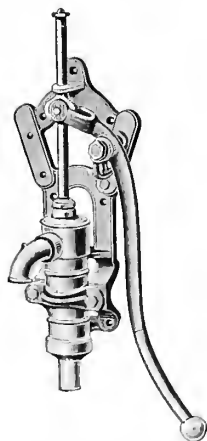


FIG. 1701. BRASS CITY LIFT
AND FORCE PUMP,
WITH SPOUT.

CITY BRASS LIFT AND FORCE PUMPS.—Figs. 1701 and 1702.

FIG. 1701. 2-INCH CYLINDER, FOR 1-INCH PIPE	EACH	7.00
FIG. 1702. 2-INCH CYLINDER, FOR 1-INCH PIPE, WITH COUPLING	EACH	7.00
IRON EXTENSION FRAME	EACH	5.00

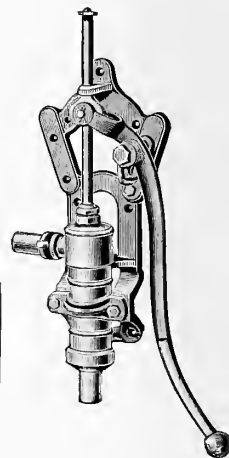


FIG. 1702. BRASS CITY LIFT
AND FORCE PUMP,
WITH COUPLING.

**IMPROVED SIPHON FORCE PUMPS.—Figs. 1703 and 1704.
FOR DEEP OR SHALLOW WELLS.**

NUMBER	2	4	6	8	10	12	14
DIAMETER OF CYLINDER	2½	3	3½	4	4½	5	5½
SUCTION AND DISCHARGE	1½	1½	2	2	2½	2½	3
CAPACITY PER STROKE	¾	1¼	1¾	2¾	3¾	4¾	5¾
EACH	24.00	25.25	27.25	30.50	45.00	50.00	56.00



FIG. 1703. IMPROVED SIPHON FORCE PUMP.

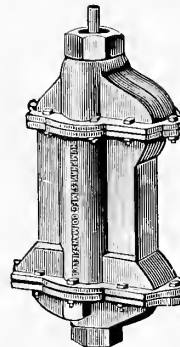
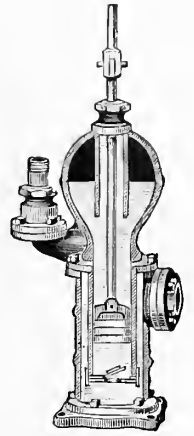
FIG. 1705.
PUMP CYLINDER.FIG. 1706. DEEP WELL
PUMP CYLINDER.FIG. 1707.
DOUBLE ACTING CYLINDER.

FIG. 1704. SECTIONAL.

FIG. 1708.
WOOD PUMP CYLINDER.

PUMP CYLINDERS.—Figs. 1705 and 1706.

SIZE	INCHES	2 x 10	2½ x 10	2½ x 10	2¾ x 10	3 x 10	3¼ x 10	3½ x 10	4 x 10	2 x 12	2½ x 12
IRON	EACH	3.75	4.00	4.35	4.70	5.00	5.30	5.60	6.50	5.50	5.75
IRON BODY, BRASS-LINED	EACH	4.00	7.25	7.25	8.25	8.75	9.25	9.75	10.50	7.50	8.00
BRASS BODY AND PLUNGER	EACH	7.50	7.75	8.00	8.50	9.00	9.75	10.50	14.00	8.00	8.25
SIZE	INCHES	2½ x 12	2¾ x 12	3 x 12	3¼ x 12	3½ x 12	4 x 12	2 x 14	2½ x 14	2½ x 14	2¾ x 14
IRON	EACH	6.00	6.50	7.00	7.50	8.00	9.25	6.00	6.25	6.50	7.00
IRON BODY, BRASS-LINED	EACH	8.50	9.00	9.50	10.00	10.50	12.50	8.25	8.75	9.25	9.75
BRASS BODY AND PLUNGER	EACH	8.50	9.00	9.50	10.25	11.25	15.00	9.75	10.25	10.50	11.25
SIZE	INCHES	3 x 14	3¼ x 14	3½ x 14	4 x 14	4½ x 14	5 x 14	2 x 16	2½ x 16	2½ x 16	2¾ x 16
IRON	EACH	7.50	8.00	8.50	10.00	12.50	14.25	6.00	6.50	7.00	7.50
IRON BODY, BRASS-LINED	EACH	10.25	10.75	10.75	14.00	17.00	21.00	9.00	9.50	10.00	10.50
BRASS BODY AND PLUNGER	EACH	11.75	12.75	14.75	19.00	NOT MADE	NOT MADE	10.50	11.25	11.75	12.25
SIZE	INCHES	3 x 16	3¼ x 16	3½ x 16	4 x 16	4½ x 16	5 x 16	6 x 16	----	----	----
IRON	EACH	8.00	8.50	9.00	10.50	14.00	17.00	23.00	----	----	----
IRON BODY, BRASS-LINED	EACH	11.00	11.50	12.00	15.75	18.75	23.50	29.50	----	----	----
BRASS BODY AND PLUNGER	EACH	12.25	14.00	16.00	20.50	26.50	31.00	42.00	----	----	----

PUMP CYLINDERS.—Figs. 1707 and 1708.

SIZE	INCHES	3 x 11½	3¼ x 11½	3½ x 11½	2½	3	4
FIG. 1707	EACH	----	----	----	10.00	12.00	14.00
FIG. 1708	EACH	3.00	4.00	4.50	----	----	----

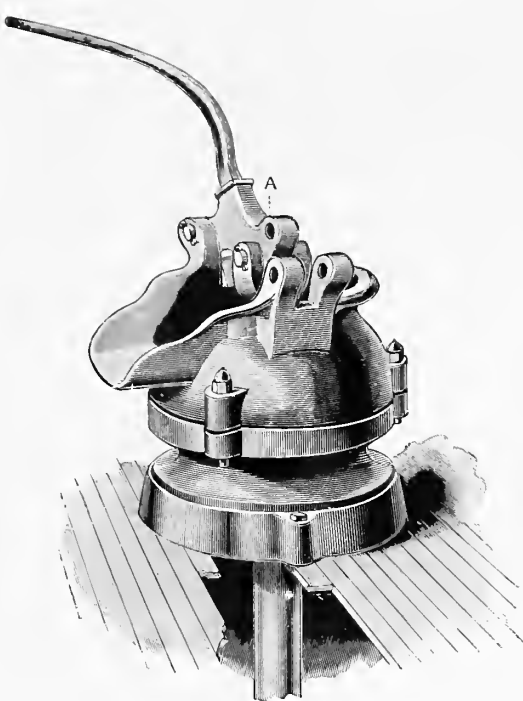


FIG. 1710. BOTTOM SUCTION.

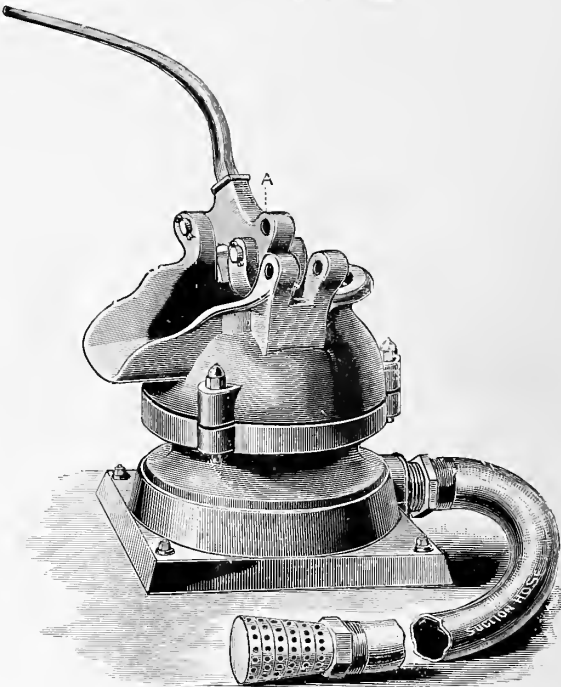


FIG. 1711. SIDE SUCTION.

DIAPHRAGM TRENCH PUMPS.—Figs. 1710 and 1711.

NUMBER		1	2
SIZE OF SUCTION	INCHES	2½	3
CAPACITY	GALLONS PER STROKE	43	1½
FIG. 1710	EACH	22.00	24.00
FIG. 1711	EACH	---	30.00

Price, 12 feet of 3-inch Spiral Flat-wired Suction Hose (specially made for this purpose), fitted with Brass Strainer, Hose, Nipple, and Couplings, complete, \$35.00; extra Diaphragms, net, \$3.00.

These Pumps are the best made for use in raising a large quantity of water by hand power, and they can be used on the muddiest or filthiest water. We fit them complete, with Suction Hose and Strainers, when so ordered.

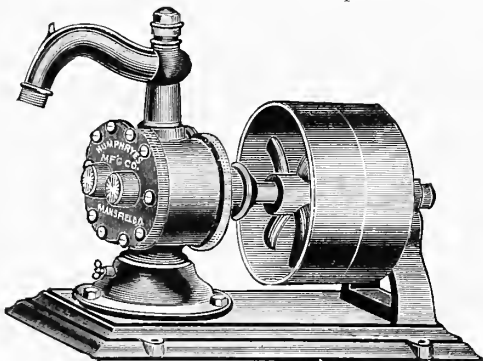


FIG. 1712. POWER ROTARY FORCE PUMP.

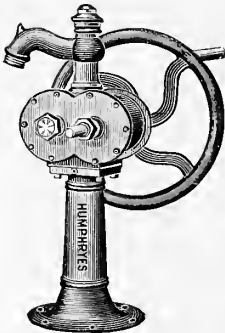


FIG. 1713. HAND ROTARY FORCE PUMP.

ROTARY FORCE PUMPS.—Figs. 1712 and 1713.

NUMBER		1	2	3	4	5	6
SIZE OF SUCTION	INCHES	1¼	1¼	1½	1½	2	3
GALLONS PER MINUTE	100 REVOLUTIONS	1	1	1¼	1½	2	2½
FIG. 1712. POWER ROTARY	EACH	27.00	32.00	38.00	48.00	54.00	65.00
FIG. 1713. HAND ROTARY	EACH	19.00	22.00	26.00	35.00	40.00	50.00

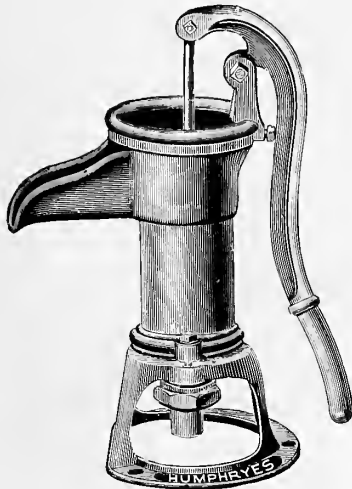


FIG. 1714.
PITCHER SPOUT PUMP.

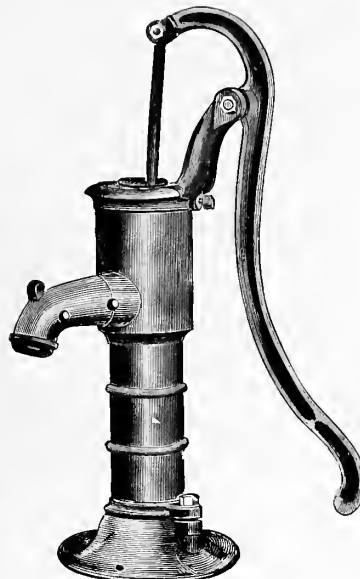


FIG. 1715.
REVOLVING-TOP CISTERN PUMP.

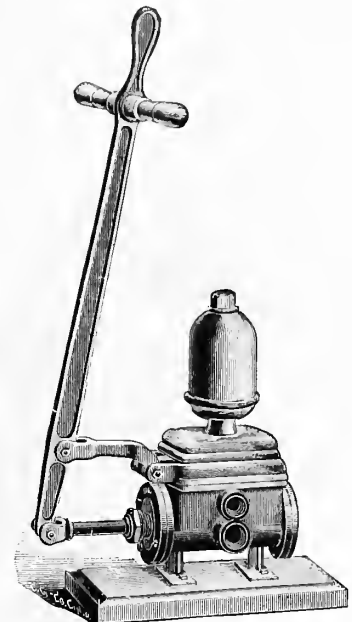


FIG. 1716. HORIZONTAL DOUBLE-ACTING
FORCE PUMP.

PITCHER SPOUT PUMPS.— Fig. 1714.

NUMBER	1	2	2 A	3	4	5
DIAMETER CYLINDER INCHES	2½	3	3	3½	4	4½
SIZE SUCTION INCHES	1	1¼	1¼	1¼	1½	2
EACH	4.25	4.75	4.25	5.25	5.75	6.25

Pump No. 2A is of less weight than the Standard No. 2, but is equally as strong and efficient.

REVOLVING-TOP CISTERN PUMPS.— Fig. 1715.

NUMBER	0	1	2	3	4	5	6	8
DIAMETER CYLINDER INCHES	2	2¼	2½	2¾	3	3¼	3½	4
SIZE SUCTION INCHES	1	1	1¼	1¼	1½	1½	1½	2
IRON EACH	3.50	4.00	4.50	5.00	5.50	6.50	8.00	10.00
BRASS CYLINDER EACH	5.50	6.00	7.00	8.00	10.00	13.00	18.00	25.00

HORIZONTAL PUMPS.— Fig. 1716.

NUMBER	2	4	6	8
DIAMETER OF CYLINDER INCHES	2½	3	3½	4
DOUBLE SUCTION INCHES	1¼	1¼	1½	1½
DOUBLE DISCHARGE INCHES	1	1	1¼	1¼
STROKE INCHES	5	5	5	5
CAPACITY PER REVOLUTION GALLONS	½	¾	¾	¾
FLOOR SPACE INCHES	8 x 20	8 x 20	8 x 20	8 x 20
EACH	16.00	18.00	24.00	31.00

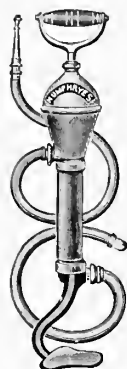


FIG. 1718. PORTABLE GREENHOUSE PUMP.

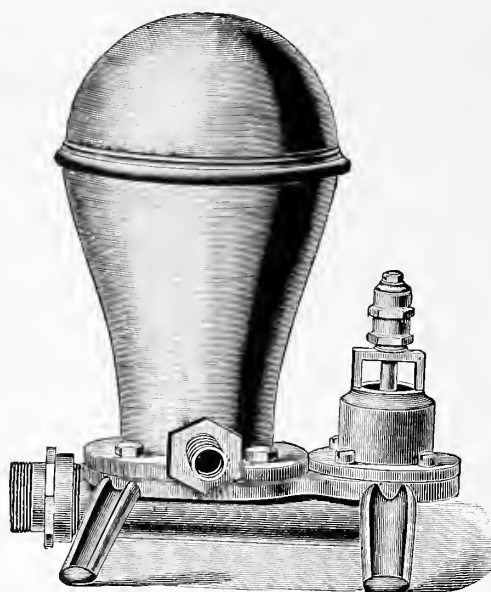


FIG. 1719. IMPROVED HYDRAULIC RAM.

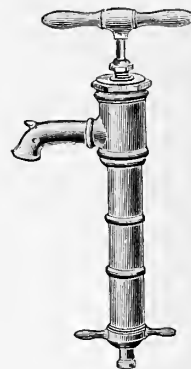


FIG. 1720. IMPROVED GAS DRIP PUMP. FOR GAS COMPANIES.

IMPROVED HYDRAULIC RAMS.—Fig. 1719.

NUMBER	2	3	4	5	6	7	8
QUANTITY WATER FURNISHED TO RAM PER MINUTE, GALLONS	1 to 2	2 to 4	3 to 7	6 to 10	11 to 25	25 to 45	25 to 75
LENGTH OF DRIVE PIPE ——— FEET	25 to 50	25 to 50	25 to 50	25 to 50	25 to 50	25 to 50	25 to 50
SIZE OF DRIVE PIPE ——— INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	2	$2\frac{1}{2}$	3	6
SIZE OF DISCHARGE PIPE ——— INCHES	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
EACH	9.00	11.00	14.00	22.00	40.00	75.00	125.00

RULE TO FIND HOW MANY GALLONS OF WATER PER MINUTE CAN BE RAISED BY OUR HYDRAULIC RAM.

Multiply the quantity supplied by the Spring (in gallons per minute) by 65. Multiply this product by the "Head," or numbered feet in the fall; then divide by 100 times the height to which the water is to be elevated. The result will give the quantity of water raised per minute in gallons or fraction of gallons.

GREENHOUSE AND GAS DRIP PUMPS.—Figs. 1718 and 1720.

FIG. 1718. COMPLETE, WITH SUCTION HOSE AND DISCHARGE PIPE	EACH	9.00
FIG. 1720	EACH	15.00

Fig. 1718 represents our New Double-Acting Portable Hand Force Pump, fitted with Suction Hose, to draw water or other liquids from a pail or other source of supply, and Discharge Hose, with a Nozzle and Rose Sprinkler for distributing the same for whatever purpose desired.

Fig. 1720 is constructed of Brass, has Stuffing Box at top to prevent overflow, and is designed particularly for pumping gas drips. Length of Piston Rods, 13 inches; length of Pump (over all), 24 inches; diameter of Cylinder (inside), 2 inches. Fitted for $\frac{3}{4}$ or 1 inch iron pipe, as ordered.



FIG. 1721. TANK FLOAT VALVE.



FIG. 1722. ENTERPRISE FLOAT VALVE.



FIG. 1723. TANK FLOAT VALVE.

TANK FLOAT VALVES.—Figs. 1721, 1722, and 1723.

SIZE	INCHES	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
FIGS. 1721 AND 1723	EACH	.80	.80	1.00	3.00	5.00
FIG. 1722	EACH	1.25	1.40	1.50		

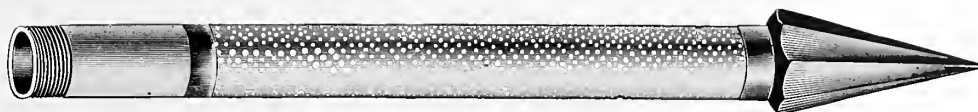


FIG. 1724.

BRASS JACKET POINTS, MADE OF GALVANIZED IRON PIPE.—Fig. 1724.

Trade Number.	Diameter, Inches.	Length of Point, Inches.	Length of Jacket, Inches.	Number of Holes.	60 Gauge, Per Dozen.	70 Gauge, Per Dozen.	80 Gauge, Per Dozen.	90 Gauge, Per Dozen.	100 Gauge, Per Dozen.
74	1	24	18	72	33.00	40.00	46.00	52.00	62.00
76	1	30	24	96	42.00	49.00	56.00	64.00	78.00
78	1	36	30	120	51.00	59.00	66.00	76.00	94.00
80	1	42	36	144	60.00	68.00	76.00	88.00	120.00
82	1	48	42	168	69.00	78.00	86.00	100.00	136.00
84	1	54	48	192	78.00	87.00	96.00	112.00	152.00
86	1 1/4	20	14	80	30.00	36.00	42.00	50.00	64.00
90	1 1/4	24	18	100	36.00	44.00	52.00	60.00	80.00
94	1 1/4	30	24	130	46.00	55.00	64.00	75.00	100.00
98	1 1/4	36	30	165	56.00	66.00	76.00	90.00	120.00
100	1 1/4	42	36	200	66.00	77.00	88.00	105.00	140.00
102	1 1/4	48	42	240	76.00	88.00	100.00	120.00	160.00
106	1 1/4	54	48	260	86.00	99.00	112.00	135.00	180.00
110	1 1/4	60	54	290	96.00	110.00	124.00	150.00	200.00
112	1 1/4	66	60	320	106.00	121.00	136.00	165.00	220.00
114	1 1/4	72	66	350	116.00	132.00	148.00	180.00	240.00
136	1 1/2	24	18	120	48.00	57.00	65.00	78.00	94.00
140	1 1/2	30	24	162	60.00	70.00	80.00	96.00	118.00
144	1 1/2	36	30	198	72.00	84.00	95.00	114.00	142.00
146	1 1/2	42	36	240	84.00	97.00	110.00	132.00	166.00
148	1 1/2	48	42	276	96.00	111.00	125.00	150.00	188.00
150	1 1/2	54	48	312	108.00	124.00	140.00	168.00	204.00
152	1 1/2	60	54	348	120.00	138.00	155.00	186.00	228.00
154	1 1/2	66	60	384	132.00	151.00	170.00	204.00	252.00
156	1 1/2	72	66	420	144.00	165.00	185.00	222.00	276.00
160	2	24	18	144	75.00	85.00	94.00	110.00	130.00
164	2	30	24	208	90.00	101.00	112.00	132.00	160.00
168	2	36	30	264	105.00	118.00	130.00	154.00	190.00
170	2	42	36	288	120.00	134.00	148.00	176.00	220.00
172	2	48	42	336	135.00	151.00	166.00	198.00	250.00
174	2	54	48	384	150.00	167.00	184.00	220.00	280.00
176	2	60	54	432	165.00	184.00	202.00	242.00	310.00
178	2	66	60	480	180.00	200.00	220.00	264.00	340.00
180	2	72	66	528	195.00	217.00	238.00	286.00	370.00
184	2 1/2	36	30	300	180.00	205.00	230.00	260.00	300.00
188	2 1/2	48	42	360	230.00	265.00	300.00	340.00	400.00
192	2 1/2	60	54	420	280.00	325.00	370.00	420.00	500.00
196	2 1/2	72	66	480	330.00	385.00	440.00	500.00	600.00
200	3	36	30	300	240.00	275.00	310.00	340.00	410.00
204	3	48	42	420	300.00	345.00	390.00	430.00	520.00
208	3	60	54	540	360.00	415.00	470.00	520.00	630.00
212	3	72	66	660	420.00	485.00	550.00	610.00	740.00
216	4	48	36	360	480.00	520.00	560.00	600.00	700.00
220	4	72	60	600	630.00	695.00	760.00	840.00	1000.00
224	4	96	84	840	780.00	870.00	960.00	1080.00	1300.00
228	4	120	108	1080	930.00	1045.00	1160.00	1320.00	1600.00

We make 5 and 6 inch Points, both in Plain and Galvanized Pipe, and will quote prices on application.



FIG. 1725. STRAINER.

STRAINERS FOR WROUGHT-IRON PIPE.—Fig. 1725.

1 AND 1 1/4 INCH, PLAIN	EACH	.25
1 AND 1 1/4 INCH, GAUZE COVERED	EACH	.40



FIG. 1726. OPEN CENTER DRIVE-WELL POINT.

OPEN CENTER DRIVE-WELL POINTS.—Fig. 1726.

Trade Number.	Diameter, Inches.	Length of Point, Inches.	Length of Jacket, Inches.	60 Gauge, Per Dozen.	70 Gauge, Per Dozen.	80 Gauge, Per Dozen.	90 Gauge, Per Dozen.	100 Gauge, Per Dozen.
7	1 1/4	24	18	36.00	44.00	52.00	60.00	80.00
9	1 1/4	30	24	46.00	55.00	64.00	75.00	100.00
11	1 1/4	36	30	56.00	66.00	76.00	90.00	120.00
15	1 1/4	42	36	66.00	77.00	88.00	105.00	140.00
21	1 1/2	24	18	48.00	57.00	65.00	78.00	94.00
23	1 1/2	30	24	60.00	70.00	80.00	96.00	118.00
29	1 1/2	36	30	72.00	84.00	95.00	114.00	142.00
30	1 1/2	42	36	84.00	97.00	110.00	132.00	166.00
31	2	24	18	75.00	85.00	94.00	110.00	130.00
33	2	30	24	90.00	101.00	112.00	132.00	160.00
35	2	36	30	105.00	118.00	130.00	154.00	190.00

OPEN CENTER POINTS FOR TUBULAR WELLS.

Trade Number.	GAUZE	60	70	80	90	100
13	FLUSH 1 1/4, 30 INCHES LONG, 24-INCH JACKET	PER DOZEN 46.00	55.00	64.00	75.00	100.00
14	FLUSH 1 1/4, 36 INCHES LONG, 30-INCH JACKET	PER DOZEN 56.00	60.00	76.00	90.00	120.00

WASHER POINTS.

Trade Number.	Diameter, Inches.	Length of Pipe, Inches.	Number of Holes.	60 Gauge, Per Dozen.	70 Gauge, Per Dozen.	80 Gauge, Per Dozen.	90 Gauge, Per Dozen.	100 Gauge, Per Dozen.
300	1 1/4	20	50	30.00	36.00	42.00	50.00	64.00
301	1 1/4	24	60	36.00	44.00	52.00	60.00	80.00
302	1 1/4	30	80	46.00	55.00	64.00	75.00	100.00
303	1 1/4	36	100	56.00	66.00	76.00	90.00	120.00
304	1 1/4	42	120	66.00	77.00	88.00	105.00	140.00
305	1 1/4	48	140	76.00	88.00	100.00	120.00	160.00
320	1 1/2	24	80	48.00	57.00	65.00	78.00	94.00
321	1 1/2	30	110	60.00	70.00	80.00	96.00	118.00
322	1 1/2	36	130	72.00	84.00	95.00	114.00	142.00
323	1 1/2	42	150	84.00	97.00	110.00	132.00	160.00
324	2	30	140	90.00	101.00	112.00	132.00	160.00
325	2	36	170	105.00	118.00	130.00	154.00	190.00
326	2	42	220	120.00	134.00	148.00	176.00	220.00

PERFORATED SHEET BRASS.

WIDTH	INCHES	4 3/8	5 5/16	6	7 3/8	9	11	12	14
SUITABLE FOR POINTS	INCHES	1	1 1/4	1 1/2	2	2 1/2	3	---	---
PER LINEAL FOOT		.14	.18	.20	.25	.30	.35	.40	.44

No. 2 Perforated Sheet Brass, per square foot, 85 cents.

BRASS WIRE CLOTH.

MESH BRASS WIRE CLOTH	NUMBER	40	50	60	80	90	100	120
MADE FROM WIRE	NUMBER	33	35	36	38	39	40	40
PRICE	PER SQUARE FOOT	.55	.58	.60	.90	1.10	1.30	1.50

TOOLS.

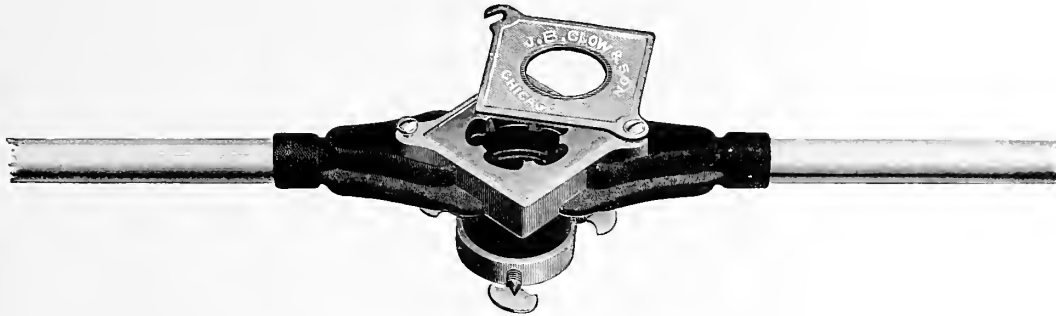


FIG. 1732. DIE PLATE.

DIE PLATES.—Fig. 1732.
WITH HILL'S PATENT SOLID DIES.

Numbers.	Threads.	Dimensions of Dies	Die Plate Complete.	Without Dies.	Extra Dies.	Extra Bushings.	Extra Die Frames.
00 FOR BRASS PIPE	$\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$	2 x 2 x $\frac{1}{2}$	13.50	3.50	2.00	.25	----
0	$\frac{1}{8}$ to $\frac{1}{2}$	2 x 2 x $\frac{1}{2}$	9.50	3.50	1.50	.25	----
1	$\frac{1}{4}$ to 1	$2\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{3}{4}$	15.00	5.00	2.00	.35	.30
$1\frac{1}{2}$	$\frac{3}{4}$ to $1\frac{1}{4}$	3 x 3 x $\frac{3}{4}$	13.50	6.00	2.50	.45	.40
$1\frac{3}{4}$	1 to $1\frac{1}{2}$	3 x 3 x $\frac{3}{4}$	13.50	6.00	2.50	.45	.40
2	$1\frac{1}{4}$, $1\frac{1}{2}$, and 2	4 x 4 x $\frac{7}{8}$	20.00	9.50	3.50	.60	.50
3, 2-ARM	$2\frac{1}{2}$ and 3	5 x 5 x $1\frac{1}{4}$	43.00	25.00	9.00	1.00	.60
4, 4-ARM	$2\frac{1}{2}$ and 3	5 x 5 x $1\frac{1}{4}$	51.00	33.00	9.00	1.00	.60

No. 2 and larger have Leader Screw.

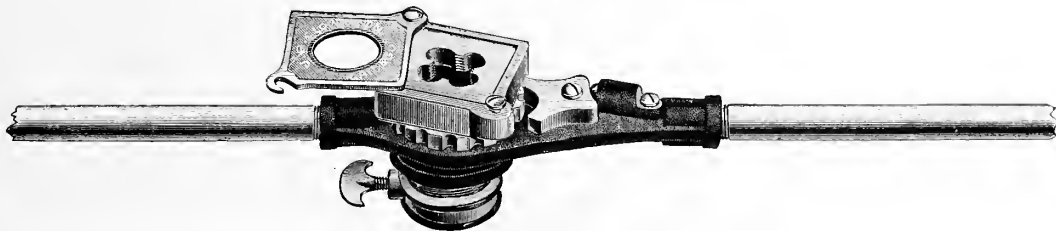


FIG. 1733. MILLER'S REVERSIBLE RATCHET DIE PLATE.

MILLER'S REVERSIBLE RATCHET DIE PLATES.—Fig. 1733.
WITH HILL'S PATENT SOLID DIES.

Numbers.	Threads.	Dimensions of Dies.	Die Plate Complete.	Without Dies.	Extra Dies.	Extra Bushings.	Extra Die Frames.
A	$\frac{1}{4}$ to $\frac{3}{4}$	2 x 2 x $\frac{1}{2}$	13.00	7.50	1.10	.20	----
B	$\frac{1}{4}$ to 1	$2\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{3}{4}$	15.00	7.50	1.50	.25	.22
C	1 to $1\frac{1}{2}$	3 x 3 x $\frac{3}{4}$	18.50	13.00	1.80	.35	.30
D	$1\frac{1}{4}$ to 2	4 x 4 x $\frac{3}{4}$	20.00	12.50	2.50	.45	.38
E	$2\frac{1}{2}$ and 3	5 x 5 x $1\frac{1}{4}$	43.00	29.00	7.00	.75	.45

C, D, and E have Leader Screws.

TOOLS.



FIG. 1734. ARMSTRONG STOCK AND DIES, NO. 1.

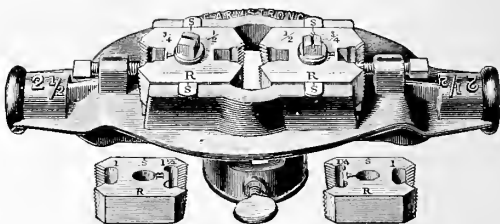


FIG. 1735. ARMSTRONG STOCK AND DIES, NO. 2 1/4.

ARMSTRONG'S ADJUSTABLE STOCKS AND DIES.—Figs. 1734 and 1735.

NUMBER	1	2	2 1/2	3	4	6	7
THREADS	1/2 to 2	1/4 to 1	1/2 to 1 1/4	1 1/4 to 2	1 1/4 to 2	2 1/2 and 3	2 1/2 to 4
COMPLETE	9.00	12.00	12.00	20.00	18.00	40.00	60.00
STOCK ONLY	3.00	3.50	4.50	7.00	7.50	25.00	----
EXTRA DIES	1.20	1.50	3.00	4.00	3.00	15.00	16.00
EXTRA BUSHINGS	.20	.25	.40	.50	.50	1.00	1.50
EXTRA WRENCHES	.25	.25	.25	.50	---	.50	.75

NOTE.—No. 4 Stock is a sectional stock. Nos. 2 1/2, 6, and 7 Stocks are fitted with double-ended dies. Nos. 1 and 2 Stocks are packed in cases, as shown in Fig. 1734. Nos. 6 and 7 have four arms.

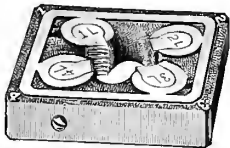


FIG. 1736. SECTIONAL DIE.



FIG. 1737. CUTTERS

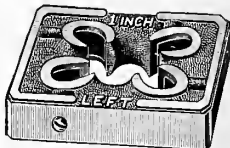


FIG. 1738. SHOWING CUTTERS REMOVED.

ARMSTRONG'S SECTIONAL DIES.—Figs. 1736, 1737, and 1738.

DIE COMPLETE, EITHER RIGHT OR LEFT	EACH	3.00
BLOCK ONLY	EACH	1.00
CUTTERS PER SET, RIGHT OR LEFT	EACH	2.00

These Dies are intended to take the place of the Solid Steel Dies, and will fit any Stock that takes a Die 4 x 4 x 1, and are made in four sizes only—1, 1 1/4, 1 1/2, and 2 inches, both Right and Left.

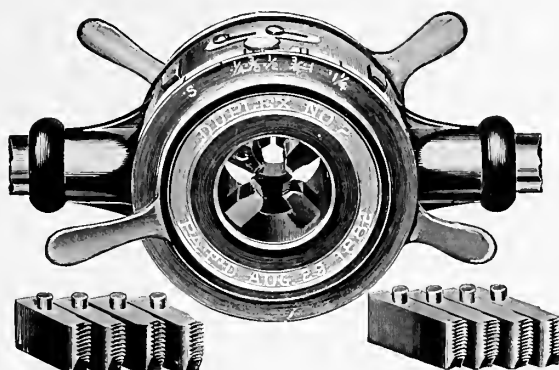
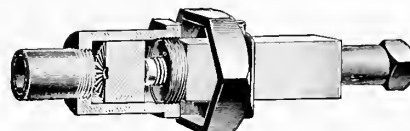


FIG. 1739.

"DUPLEX" ADJUSTABLE DIE STOCKS.—Fig. 1739.

NUMBER	1	2	3	3½	4	5
CUTS AND THREADS INCHES	$\frac{1}{4}$ to $\frac{3}{4}$	$\frac{1}{4}$ to $1\frac{1}{4}$	1 to 2	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4
WITHOUT CUT-OFF EACH	13.00	17.00	22.00	25.00	40.00	55.00
WITH CUT-OFF EACH	16.00	20.00	25.00	28.00	45.00	60.00
EXTRA DIES PER SET	1.50	1.75	2.00	2.00	3.50	4.00
EXTRA KNIVES EACH	.50	.50	.50	.50	.75	.75

FIG. 1740. GLEASON'S PATENT
SCROLL DIE AND TAPS.FIG. 1741.
PUMP ROD, STOCK AND DIES.FIG. 1742.
ASHLEY NIPPLE HOLDER.**GLEASON'S PATENT SCROLL DIES AND TAPS.—Fig. 1740.**

EACH	15.00
TAPS, $\frac{1}{4}$ TO $\frac{3}{8}$ INCH EACH	1.00
TAPS, $\frac{1}{8}$ TO $\frac{1}{2}$ INCH EACH	1.35

Arranged to thread Brass Pipe of all sizes, from $\frac{5}{16}$ to $\frac{1}{2}$ inch. Warranted the cheapest and best Tool for the purpose in use.

PUMP ROD, STOCKS AND DIES, AND ASHLEY NIPPLE HOLDERS.—Figs. 1741 and 1742.

FIG. 1741. CUTS $\frac{3}{8}$ AND $\frac{1}{2}$ PUMP ROD, WITH DIES COMPLETE EACH	5.00
FIG. 1742. FOR NIPPLES, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, AND 1 INCH COMPLETE EACH	15.00
FIG. 1742. FOR NIPPLES, $1\frac{1}{4}$, $1\frac{1}{2}$, AND 2 INCH COMPLETE EACH	20.00

FIG. 1743.
PIPE TAP.FIG. 1744.
PIPE REAMER.FIG. 1745.
COMBINED TAP, REAMER, AND DRILLFIG. 1746.
PIPE DRILL.**PIPE TAPS, REAMERS, AND DRILLS.**

SIZE	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
FIG. 1743. TAPS EACH	1.12	1.25	1.50	1.87	2.50	3.12	3.75	4.62	6.25	10.50	15.00
FIG. 1744. REAMERS EACH	---	1.25	1.50	1.87	2.50	3.12	3.75	4.62	6.25	10.50	15.00
FIG. 1745. COMBINED TAP, REAMER, AND DRILL EACH	---	2.50	2.50	3.00	4.50	6.00	7.25	8.50	10.75	---	---
FIG. 1746. DRILLS EACH	.75	.75	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.75	4.75



FIG. 1747. STANWOOD IMPROVED CUTTER.

STANWOOD IMPROVED PIPE CUTTERS.—Fig. 1747.

NUMBER		1	2	3
CUTS PIPE	INCHES	$\frac{1}{4}$ to 1	$\frac{3}{4}$ to 2	2 to 3
EACH		1.50	2.25	7.00
EXTRA BLOCKS AND WHEELS	EACH	.45	.60	1.25
EXTRA WHEELS	EACH	.12	.18	.25
PINS	EACH	.05	.05	.08



FIG. 1748. SAUNDERS PIPE CUTTER

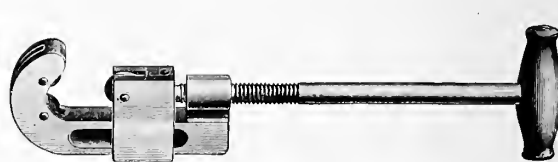


FIG. 1749. BARNES 3-WHEEL PIPE CUTTER.

SAUNDERS PIPE CUTTERS.—Fig. 1748.

NUMBER		1	2	3
CUTS PIPE	INCHES	$\frac{1}{4}$ to 1	1 to 2	2 to 3
EACH		3.00	4.50	14.00
EXTRA BLOCKS AND WHEELS	EACH	1.25	1.75	3.25
EXTRA WHEELS	EACH	.24	.32	.60
EXTRA ROLLERS	EACH	.24	.32	.50

BARNES 3-WHEEL PIPE CUTTERS.—Fig. 1749.

NUMBER		1	2	3	4	5	6	7
CUTS PIPE	INCHES	$\frac{1}{8}$ to 1	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4	4 to 6	6 to 8	9 to 12
EACH		4.50	6.00	10.00	20.00	30.00	40.00	50.00
EXTRA WHEELS	EACH	.25	.30	.40	.50	.75	.75	.75
EXTRA WHEEL PINS	PER DOZEN	1.00	1.00	1.00	2.00	2.00	2.00	2.00



FIG. 1750. MILLER'S REVERSIBLE RATCHET PIPE CUTTER.

MILLER'S REVERSIBLE RATCHET PIPE CUTTERS.—Fig. 1750.

NUMBER		0	1	$1\frac{1}{2}$	2	3
CUTS PIPE	INCHES	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{2}$ to 1	1 to $1\frac{1}{2}$	$1\frac{1}{4}$ to 2	$2\frac{1}{2}$ to 3
EACH		6.75	8.50	10.00	11.00	16.00
EXTRA WHEELS	EACH	.12	.18	.18	.25	.40

TOOLS.

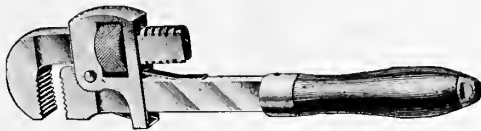


FIG. 1751. STILLSON WRENCH, 6 TO 18 INCHES.



FIG. 1752. STILLSON WRENCH, 24 TO 48 INCHES.



FIG. 1753. STILLSON JAW.



FIG. 1754. STILLSON FRAME.



FIG. 1755. STILLSON HANDLE.



FIG. 1756. STILLSON NUT.

STILLSON WRENCHES.—Figs. 1751 and 1752.

LENGTH WHEN OPEN	INCHES	6	8	10	14	18	24	36	48
GRIPS	INCHES	$\frac{1}{8}$ wire to	$\frac{1}{8}$ wire to	$\frac{1}{8}$ wire to	$\frac{1}{4}$ wire to	$\frac{1}{4}$ wire to	$\frac{1}{4}$ wire to	$\frac{1}{4}$ pipe to	1 pipe to
	INCHES	$\frac{1}{2}$ pipe	$\frac{3}{4}$ pipe	1 pipe	1 $\frac{1}{2}$ pipe	2 pipe	2 $\frac{1}{2}$ pipe	3 $\frac{1}{2}$ pipe	5 pipe
EACH		2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00

REPAIRS FOR STILLSON WRENCHES.

SIZE	INCHES	6	8	10	14	18	24	36	48
JAWS	EACH	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
FRAMES	EACH	.25	.25	.33	.45	.55	.65	.75	1.00
HANDLES	EACH	.15	.15	.20	.25	.30	---	---	---
NUTS	EACH	.20	.20	.27	.35	.42	.50	.65	.80



FIG. 1757. TRIMO PIPE WRENCH.

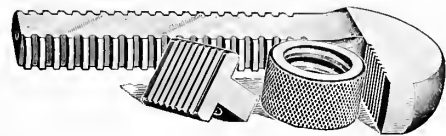


FIG. 1758. REPAIRS FOR TRIMO WRENCH.

TRIMO WRENCHES.—Fig. 1757.

LENGTH WHEN OPEN	INCHES	6	8	10	14	18	24	36	48
GRIPS	INCHES	$\frac{1}{8}$ wire to	$\frac{1}{8}$ wire to	$\frac{1}{8}$ wire to	$\frac{1}{4}$ wire to	$\frac{1}{4}$ wire to	$\frac{1}{4}$ wire to	$\frac{1}{4}$ pipe to	1 pipe to
	INCHES	$\frac{1}{2}$ pipe	$\frac{3}{4}$ pipe	1 pipe	1 $\frac{1}{2}$ pipe	2 pipe	2 $\frac{1}{2}$ pipe	3 $\frac{1}{2}$ pipe	5 pipe
EACH		2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00

REPAIRS FOR TRIMO WRENCHES.—Fig. 1758.

SIZE	INCHES	6	8	10	14	18	24	36	48
JAWS	EACH	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
NUTS	EACH	.20	.20	.27	.35	.42	.50	.65	.80
INSERTED JAWS	EACH	.25	.25	.33	.50	.55	.65	1.00	1.25
FRAMES	EACH	.25	.25	.33	.45	.55	.65	.75	1.00



FIG. 1759. ENGINEER'S WRENCH.



FIG. 1760. PEASE COMBINATION PLIERS.



FIG. 1761. GAS PLIERS.

WRENCHES AND PLIERS.—Figs. 1759, 1760, and 1761.

SIZE INCHES	5	6	7	8	9	10	12	14	15	16	18	21
FIG. 1759. BLACK PER DOZEN	---	9.00	---	10.00	---	12.00	14.00	---	24.00	---	30.00	36.00
FIG. 1760. POLISHED EACH	---	1.25	---	---	---	---	---	---	---	---	---	---
FIG. 1761. POLISHED EACH	.40	.55	.65	.70	.80	.90	1.10	1.45	---	2.00	---	---



FIG. 1762. ROBBINS' CHAIN TONGS.

ROBBINS' CHAIN TONGS.—Fig. 1762.

NUMBER	2	3	4	5	6	7
LENGTH OF LEVER INCHES	27	36	48	60	72	84
WEIGHT POUNDS	7	12	24	33	50	100
FOR PIPE INCHES	1 to 2	1½ to 4	2 to 6	2½ to 8	4 to 10	4 to 16
EACH	5.50	6.25	9.00	12.50	16.00	30.00

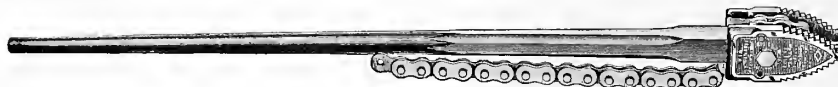


FIG. 1763. BROCK'S CHAIN TONGS.

BROCK'S PATENT CHAIN TONGS.—Fig. 1763.

NUMBER	0	1	2	3	3½	4	5
LENGTH INCHES	12½	20	27	37	44	50	64
WEIGHT POUNDS	1½	4½	8	15	20	28	47
FOR PIPE INCHES	½ to ¾	½ to 1½	¾ to 2½	¾ to 4	1 to 6	1 to 8	2 to 14
EACH	2.50	3.50	5.50	7.50	9.00	11.00	18.00
EXTRA CHAINS EACH	.75	1.00	1.50	2.50	3.25	4.00	6.00
EXTRA JAWS PAIR	1.00	1.75	2.75	4.00	4.75	5.00	7.50



FIG. 1764. COMMON TONGS.

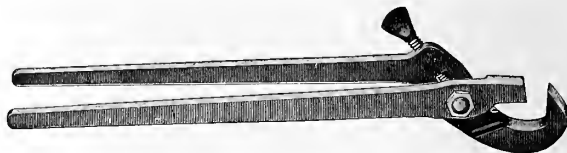


FIG. 1765. BROWN'S ADJUSTABLE TONGS.

COMMON TONGS.—Fig. 1764.

SIZE INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
EACH . . . . .	.60	.65	.70	.75	.90	1.10	1.30	1.50	1.90	2.50	4.25	5.25	6.25

BROWN'S ADJUSTABLE TONGS.—Fig. 1765.

NUMBER	1	1½	2	3	4	5	6	7
FOR PIPE INCHES	½ to ¾	¾ to 1	1 to 1¼	1 to 2	1½ to 3	2½ to 4	3 to 5	4 to 7
EACH	1.30	1.65	2.00	3.00	6.00	11.00	25.00	35.00

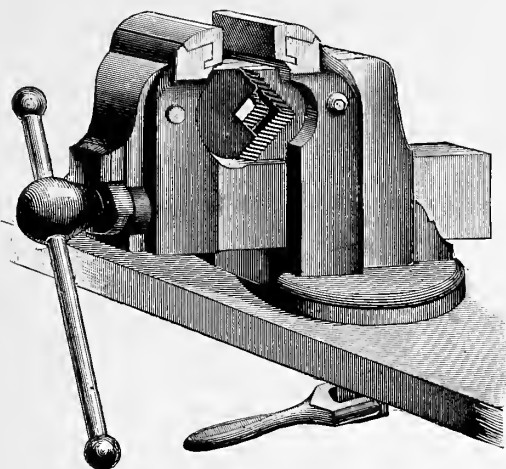


FIG. 1766. PARKER COMBINATION VISE.

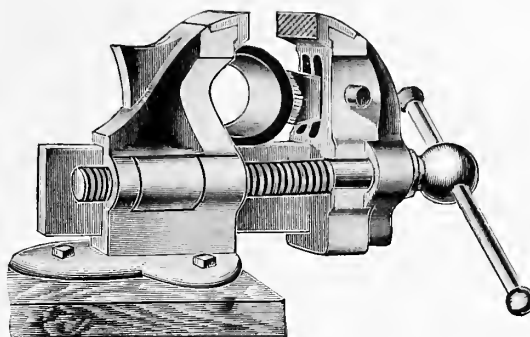


FIG. 1767. PARKER HOLD-FAST COMBINATION VISE.

PARKER COMBINATION VISES.—Fig. 1766.

NUMBER		1	2	3	4
HOLDS PIPE FROM	INCHES	$\frac{1}{8}$ to 2	$\frac{1}{8}$ to 3	$\frac{1}{8}$ to 4	$\frac{1}{8}$ to 6
WEIGHT	POUNDS	41	59	105	155
EACH		16.00	20.00	28.00	35.00
PIPE JAWS	NET, PER SET	2.25	2.50	3.50	4.00
PLAIN JAWS	NET, EACH	.50	.50	.75	.75

PARKER HOLD-FAST COMBINATION VISES.—Fig. 1767.

NUMBER		1	2
HOLDS PIPE FROM	INCHES	$\frac{1}{8}$ to 2	$\frac{1}{8}$ to 3
EACH		8.50	11.00

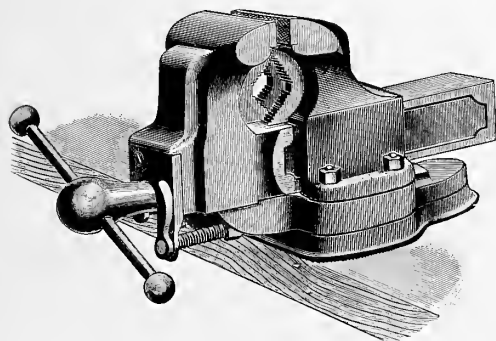


FIG. 1768. MASSEY COMBINATION VISE, SWIVEL BASE.

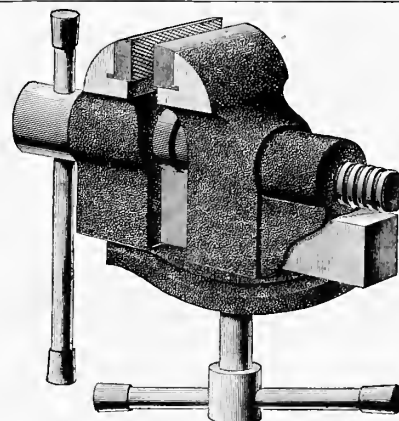


FIG. 1769. BENCH VISE, 5-INCH JAW.

MASSEY COMBINATION VISES.—Fig. 1768.

NUMBER		1	2
HOLDS PIPE FROM	INCHES	$\frac{1}{8}$ to 2	$\frac{1}{8}$ to 3
EACH		16.00	20.00

BENCH VISES.—Fig. 1769.

FOR PIPE $\frac{1}{8}$ TO 6 INCHES	EACH	20.00
EXTRA JAWS	NET, EACH	1.75

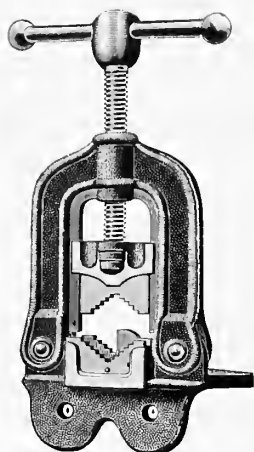


FIG. 1770.
MALLEABLE HINGE VISE.

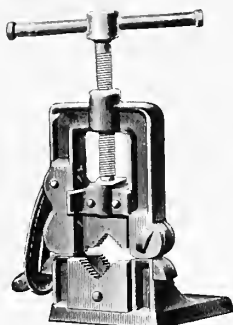


FIG. 1771.
ARMSTRONG HINGE VISE.

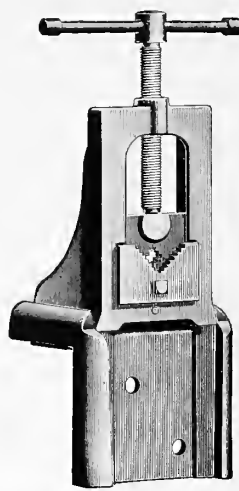


FIG. 1772.
ANGLE PLATE VISE.

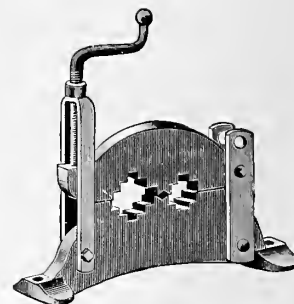


FIG. 1773.
ENTERPRISE CAST-IRON VISE.

MALLEABLE HINGE VISES.—Fig. 1770.

NUMBER	1	2
HOLDS PIPE FROM	$\frac{1}{8}$ to 2	$\frac{1}{8}$ to 3
EACH	10.00	14.00
EXTRA JAWS	1.00	1.50
PER SET OF THREE		

ARMSTRONG HINGE VISES.—Fig. 1771.

NUMBER	1	2
HOLDS PIPE FROM	$\frac{1}{8}$ to 2 $\frac{1}{2}$	$\frac{1}{8}$ to 4 $\frac{1}{2}$
EACH	10.00	20.00

ANGLE PLATE VISES.—Fig. 1772.

NUMBER	1	2
HOLDS PIPE FROM	$\frac{1}{8}$ to 2	$\frac{1}{8}$ to 3
EACH	12.00	18.00

ENTERPRISE VISES.—Fig. 1773.

HOLDS PIPE FROM	INCHES	$\frac{1}{4}$ to 2
EACH		3.00



FIG. 1774. PROSSER'S SPRING TUBE EXPANDER.



FIG. 1775. HENDERER ROLLER TUBE EXPANDER.

TUBE EXPANDERS.—Figs. 1774 and 1775.

SIZE	INCHES	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4	5	6
FIG. 1774 - EACH		8.00	8.00	9.00	11.00	12.00	13.00	15.00	18.00	22.00	26.00	30.00	---	33.00	42.00	60.00
FIG. 1775 - EACH		7.00	7.00	8.00	9.00	10.00	12.00	14.00	16.00	18.00	20.00	23.00	25.00	28.00	---	---

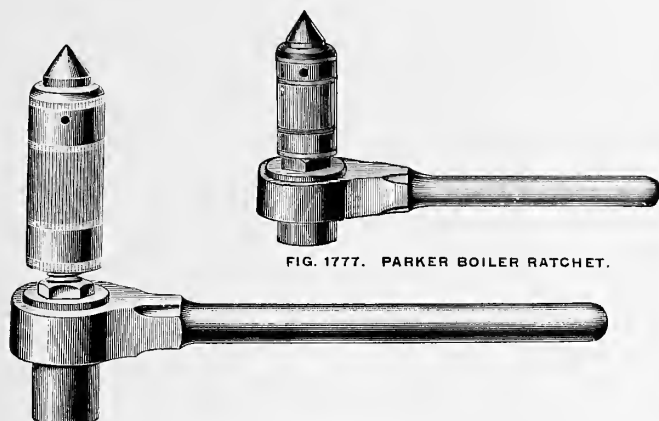


FIG. 1776. PARKER RATCHET.

FIG. 1777. PARKER BOILER RATCHET.

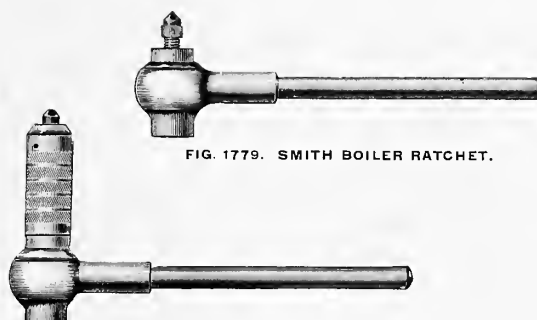


FIG. 1778. SMITH FRICTION RATCHET.

FIG. 1779. SMITH BOILER RATCHET.

RATCHETS.—Figs. 1776, 1777, 1778, and 1779.

NUMBER		1	2	3	4	5
LENGTH OF HANDLE	INCHES	10	12	15	17	20
FIG. 1776	EACH	5.75	6.00	7.00	7.50	8.00
FIG. 1777	EACH	5.50	6.00	-----	-----	-----
FIG. 1778	EACH	10.00	12.00	15.00	-----	23.00
FIG. 1779	EACH	9.00	10.50	13.50	-----	-----



FIG. 1780. GAS FITTERS' AUGER.

GAS FITTERS' AUGERS.—Fig. 1780.

NUMBER		1	2	3	4	5	6	7	8	9
DIAMETER OF AUGER	INCHES	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3
SIZE OF PIPE	INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
EACH		.80	1.00	1.12	1.60	1.92	2.25	2.50	3.25	4.00

In ordering Augers, state pipe size.



FIG. 1781. LOWELL RATCHET WRENCH.



FIG. 1782. MACHINISTS' HAMMER.

LOWELL RATCHET WRENCHES.—Fig. 1781.

NUMBER		1	2	3	4
SIZE OF SQUARE GEAR	INCHES	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$	$\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$	$1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$
SIZE OF HEXAGON GEAR	INCHES	$\frac{5}{8}$, $\frac{3}{4}$	$\frac{3}{4}$, $\frac{7}{8}$, 1	1, $1\frac{1}{8}$, $1\frac{1}{4}$	$1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$
WITH ONE GEAR ONLY	EACH	3.00	4.00	5.00	7.00
EXTRA GEARS	EACH	.50	.60	.75	1.00

MACHINISTS' HAMMERS, BALL PANE.—Fig. 1782.

WEIGHT	POUNDS	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	$2\frac{3}{4}$	3
EACH		1.00	1.20	1.30	1.50	1.65	1.90	2.05	2.20

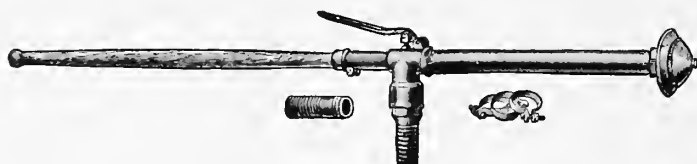


FIG. 1783. RED JACKET FLUE CLEANER.

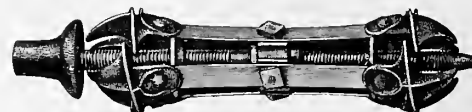


FIG. 1784. ENGINEERS' FAVORITE FLUE CLEANER.

RED JACKET STEAM FLUE CLEANERS.—Fig. 1783.

NUMBER	0	1	2	3	4	5	6
SIZE OF TUBES, OUTSIDE DIAMETER	1 1/4 to 1 3/4	2 to 2 1/4	2 1/2 to 2 3/4	3 to 3 1/4	3 1/2 to 3 3/4	4 to 4 1/2	5 to 6
WITH CLAMPS AND NIPPLE	5.00	5.00	6.25	7.50	8.75	10.00	12.50
BEST 4-PLY STEAM HOSE	1/2-in. .51	1/2-in. .51	3/4-in. .67	1-in. .83	1-in. .83	1 1/4-in. 1.04	1 1/4-in. 1.04

The above prices do not include hose

ENGINEERS' FAVORITE CLEANERS.—Fig. 1784.

SIZE	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	4	4 1/2	5	6
EACH	2.00	2.00	2.25	2.50	2.75	3.00	3.25	3.50	4.00	4.50	6.25	7.50



FIG. 1785. STEEL WIRE TUBE CLEANER.



FIG. 1786. EXPANDING WIRE FLUE BRUSH.

STEEL WIRE TUBE CLEANERS.—Figs. 1785 and 1786.

SIZE	INCHES	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4
FIG. 1785	EACH	1.10	1.20	1.20	1.25	1.40	1.50	1.60	1.75	1.75	1.75	1.75	1.75	1.75
FIG. 1786	EACH	2.00	2.00	2.00	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.00

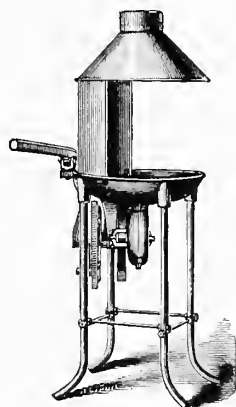


FIG. 1787. BUFFALO FORGE, No. 4.

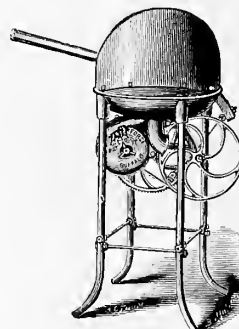


FIG. 1788. BUFFALO FORGE, No. 5.

BUFFALO FORGES.—Figs. 1787 and 1788.

NUMBER, DESCRIPTION	1 Half Open Hood.	2 Closed Hood.	3 With Dash.	4 Half Open Hood.	5 With Dash.	6 Closed Hood.	7 Low Down.	8 Low Down.
WEIGHT	150	155	148	75	70	80	40	50
EACH	40.00	42.00	36.00	27.00	24.00	30.00	16.00	18.00

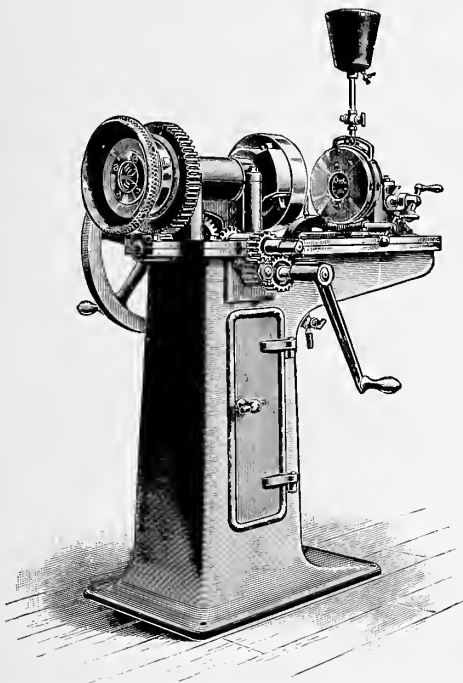


FIG. 1789. JARECKI HAND MACHINE, No. 6.

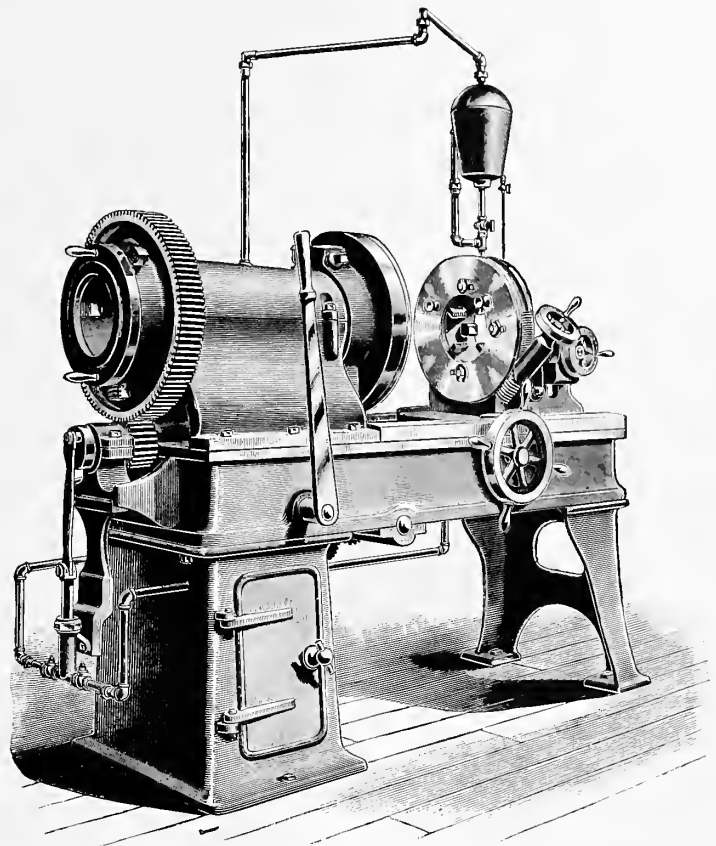


FIG. 1790. JARECKI POWER MACHINE, No. 9.

JARECKI PIPE CUTTING AND THREADING MACHINES.

NUMBER OF MACHINE		6	7	9
HAND MACHINE, WITH ADJUSTABLE RIGHT-HAND DIES, $\frac{1}{4}$ TO 2 INCH, COMPLETE	EACH	90.00	-----	-----
POWER MACHINE, WITH ADJUSTABLE RIGHT-HAND DIES, $\frac{1}{4}$ TO 2 INCH, WITH COUNTERSHAFT, COMPLETE	EACH	-----	105.00	-----
POWER MACHINE, WITH ADJUSTABLE RIGHT-HAND DIES, 1 TO 4 INCH, WITH COUNTERSHAFT, COMPLETE	EACH	-----	-----	425.00
OIL PUMPS, EXTRA	EACH	15.00	15.00	-----
CUTTING-OFF KNIVES	EACH	.50	.50	.70
APPROXIMATE WEIGHT	POUNDS	650	875	2,000

EXTRA DIES.

ONE SET CUTS THESE TWO SIZES	INCHES	$\frac{1}{4}$ and $\frac{3}{8}$	$\frac{1}{2}$ and $\frac{3}{4}$	1 and $1\frac{1}{4}$	$1\frac{1}{2}$ and 2	$2\frac{1}{2}$ and 3	$3\frac{1}{2}$ and 4
FOR NUMBER 6 OR 7 MACHINE, EITHER RIGHT OR LEFT	PER SINGLE SET	2.50	2.50	2.50	2.50	-----	-----
FOR NUMBER 9 MACHINE, EITHER RIGHT OR LEFT	PER SINGLE SET	-----	-----	4.00	4.00	4.00	4.00

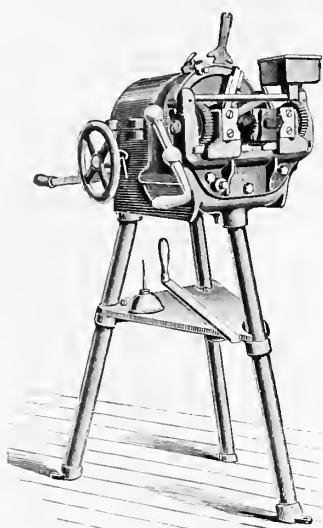


FIG. 1791. No. 1, FOR HAND OR POWER.

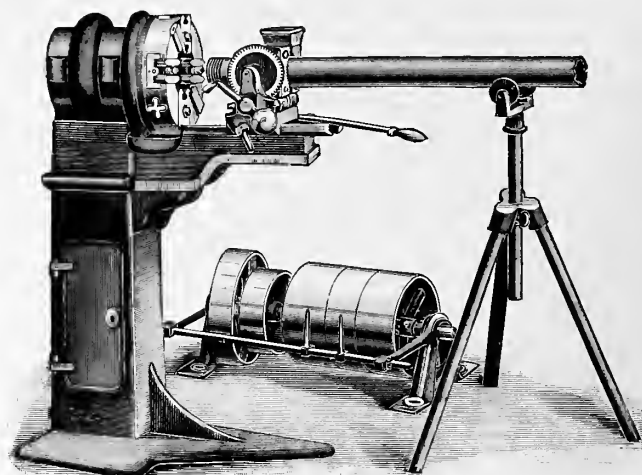


FIG. 1792. No. 2, FOR HAND OR POWER.

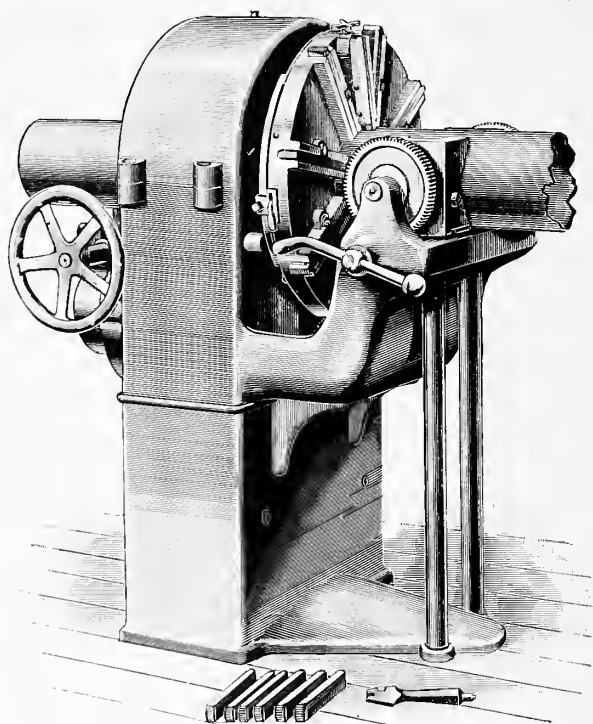


FIG. 1793. No. 3, FOR POWER ONLY.

ARMSTRONG PIPE CUTTING AND THREADING MACHINES.—Figs. 1791, 1792, and 1793.

NUMBER OF MACHINE		1	2	3
CUTS AND THREADS SIZES	INCHES	1 to 3	1 to 4	1 to 6
HAND MACHINE, WITH RIGHT OR LEFT HAND DIES, COMPLETE	EACH	125.00	296.00	-----
POWER MACHINE, WITH RIGHT OR LEFT HAND DIES, COMPLETE	EACH	170.00	316.00	550.00

Approximate weights: No. 1, 250 pounds; No. 2, 725 pounds; No. 3, 1,000 pounds.

Extra Dies, either right or left hand: No. 1 Machine, 1 to 3 inch, \$14.00. No. 2 Machine, 1 to 2 inch, \$16.00; 2½ and 3 inch, \$16.00; 3½ and 4 inch, \$16.00. Price on Power Machines includes Countershaft.

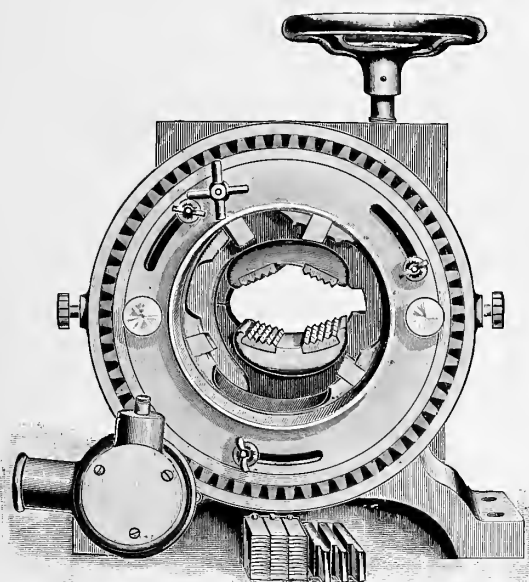


FIG. 1794. FORBES HAND MACHINE.

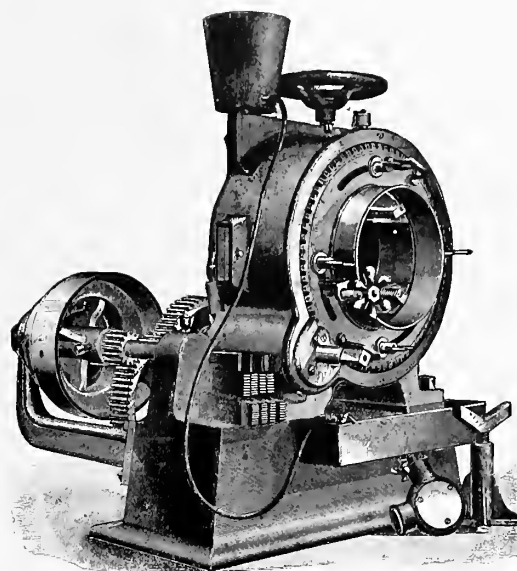


FIG. 1795. FORBES HAND OR POWER MACHINE.

FORBES HAND PIPE CUTTING AND THREADING MACHINES.— Fig. 1794.

NUMBER	1	*1 A	1½	1½ A	2	2½	2½ A	2½ B
THREADS PIPE - - - INCHES	¼ to 2	¼ to 2	1 to 3	¾ to 3	2½ to 4	1½ to 4	1½ to 4	1 to 4
WEIGHT - - - - - POUNDS	80	80	115	120	175	175	180	180
PRICE - - - - - EACH	50.00	45.00	75.00	85.00	85.00	100.00	115.00	110.00
NUMBER	2½ C	3	3 A	3 B	3 C	3 F	3 G	3½
THREADS PIPE - - - INCHES	1 to 4	4 to 6	3½ to 6	2½ to 5	2½ to 6	1 to 6	1 to 6	2½ to 6
WEIGHT - - - - - POUNDS	185	310	315	320	325	330	335	750
PRICE - - - - - EACH	130.00	115.00	130.00	150.00	175.00	190.00	235.00	300.00

FORBES HAND OR POWER MACHINES.— Fig. 1795.

NUMBER	1	1 A	1½	1½ A	2	2½	2½ A	2½ B	2½ C	3	3 A	3 B	3 C
THREADS PIPE - - - INCHES	¼ to 2	¼ to 2	¾ to 3	¾ to 3	2½ to 4	1½ to 4	1½ to 4	1 to 4	1 to 4	4 to 6	3½ to 6	2½ to 5	2½ to 6
WEIGHT - - - - - POUNDS	250	250	300	305	300	330	330	330	335	440	450	475	500
PRICE - - - - - EACH	100.00	95.00	125.00	135.00	140.00	150.00	165.00	160.00	180.00	170.00	180.00	200.00	225.00

All orders will be filled with Hand Machines unless Hand and Power Machines are specified. By removing the base on the Power Machines, they can be used by hand. Prices on Power Machines include Countershaft, Ratchet, Wrench, and Pipe Rest.

All Machines have Right Hand Adjustable Dies except the following numbers, which have Right and Left: No. 1, 2½ A, 2½ C, 3 G; also No. 1½ Machine has Right Hand Dies, 1 to 3 inch, and Left Hand Dies, 1 to 2 inch; No. 1½ A Machine has Right Hand Dies, ¾ to 3 inch, and Left Hand Dies, ¾ to 2 inch.

* This Machine is arranged for Solid Dies. Price does not include Dies.

CURTIS PATENT NIPPLE HOLDERS.— Fig. 1796.

FIG. 1796.
CURTIS NIPPLE HOLDER.

SIZE - - - - - INCHES	¼ to 2	1 to 3	1 to 4	1 to 6
RIGHT AND LEFT, COMPLETE - -	14.00	18.00	40.00	60.00

WATER WORKS TOOLS.

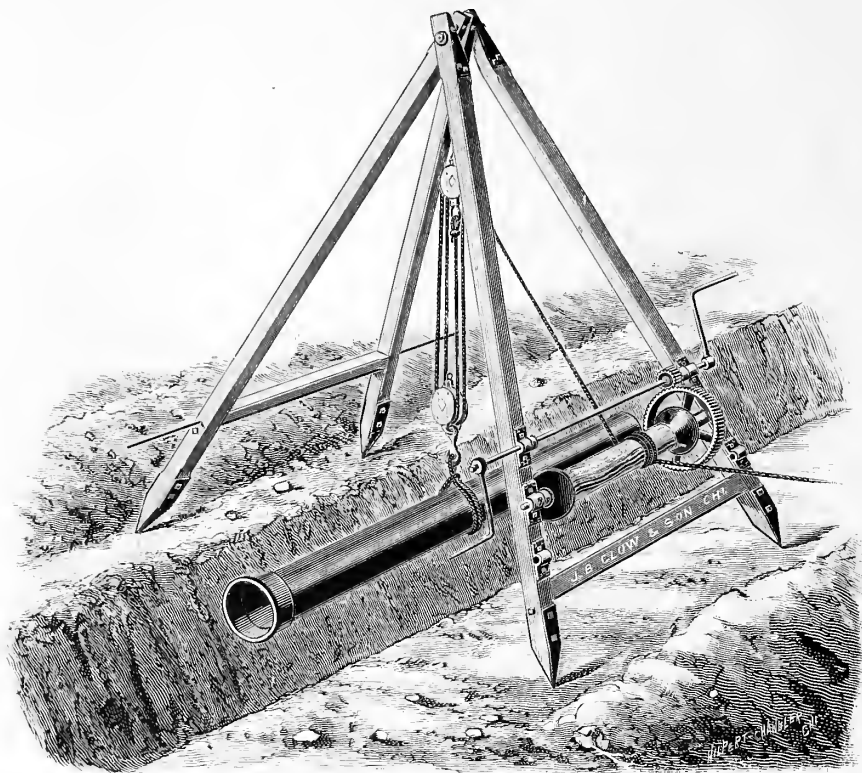


FIG. 1797.

DERRICKS.—Fig. 1797.

COMPLETE, WITH ROPE AND BLOCKS (EXCEPT SLINGS).

NUMBER		1	2
FOR LAYING PIPE	INCHES	4 to 20	20 to 36
EACH		85.00	350.00

ENDLESS ROPE SLINGS.

SIZE PIPE	INCHES	4	6	8	10	12	14	16	20	24	30	36
1-INCH ROPE	EACH	1.00	1.00	1.35	1.50	---	---	---	---	---	---	---
1½-INCH ROPE	EACH	1.50	1.50	1.75	2.00	2.25	2.50	2.75	3.50	4.00	5.00	6.00
2-INCH ROPE	EACH	---	---	---	---	4.00	4.75	5.25	6.50	7.50	9.00	11.00

WATER WORKS TOOLS.

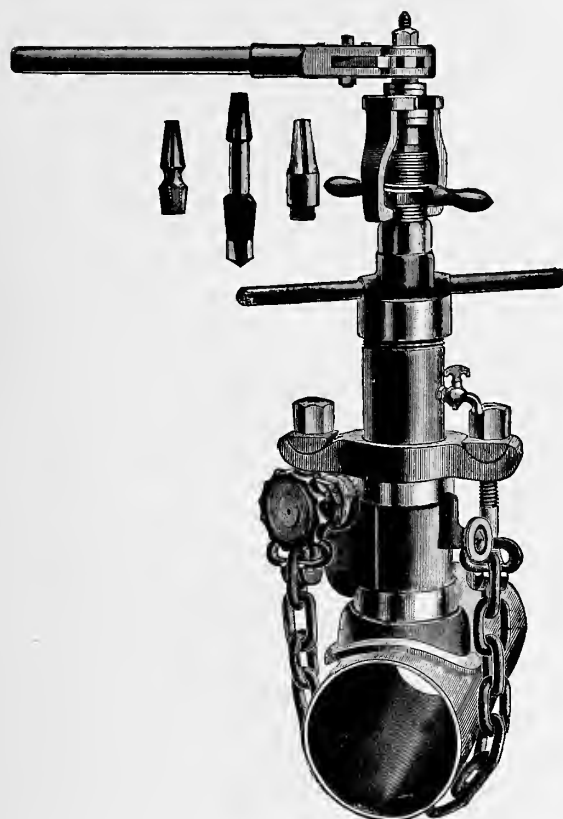


FIG. 1798. MUELLER WATER TAPPING MACHINE.

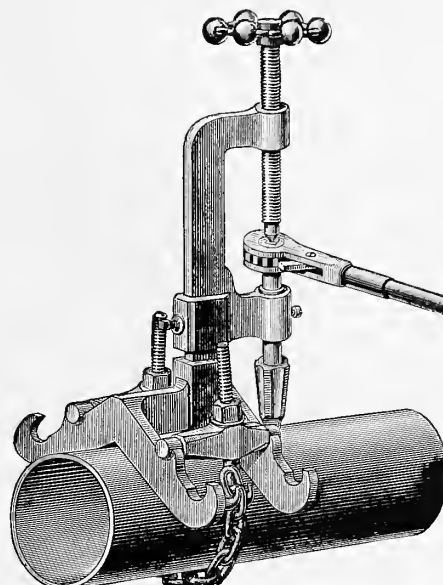


FIG. 1799. MUELLER GAS OR DRY MACHINE.

MUELLER WATER TAPPING MACHINES.—Fig. 1798.
FOR DRILLING AND TAPPING MAINS UNDER PRESSURE.

PRICE	-----	EACH	100.00
-------	-------	------	--------

Water Tapping Machine complete includes: 1 each, Combined Drill and Tap— $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch; 1 each, Screw or Hexagon Plug— $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch; 4 Malleable Iron Saddles, any size; 1 Chain for any size Pipe.

In case all the Tools and Saddles are not required, or more Saddles are needed, deduct or add, whichever the case may be, according to price list of extras shown on page 426.

MUELLER DRY TAPPING MACHINES.—Fig. 1799.

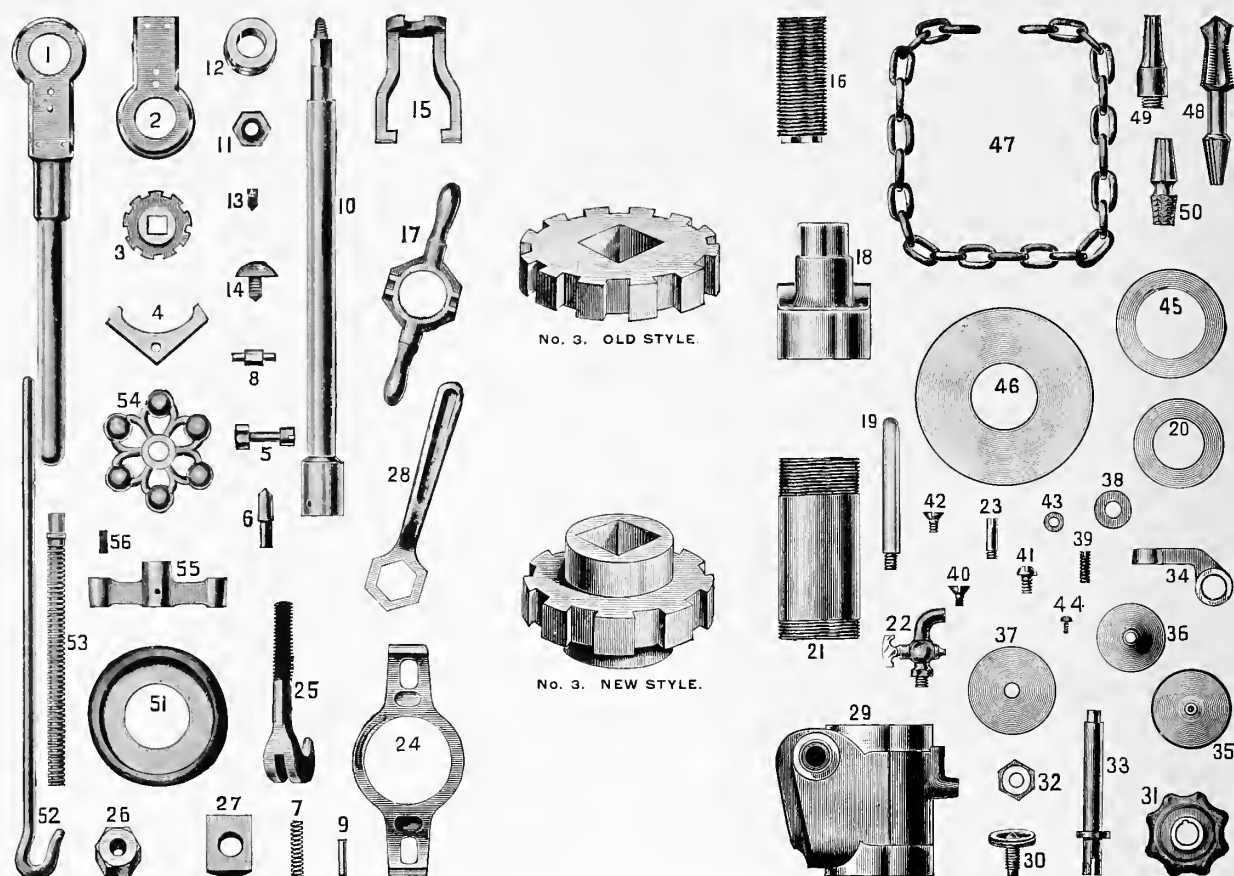
MACHINE COMPLETE, WITHOUT TOOLS	-----	EACH	21.00
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In ordering a Machine, state size of Tools desired, and in order that we may send the required length of Chain, state size of largest main to be tapped. If not specified, Chain for 12-inch pipe will be sent. Tools with Iron Pipe Thread will be sent unless otherwise ordered.

Special Tools of any size and thread desired made on short notice.

COMBINED TAPS AND DRILLS.

SIZE	INCHES	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
STANDARD IRON PIPE THREAD	EACH	4.00	---	4.50	5.00	6.25	7.50	9.50
STANDARD CORPORATION STOP-COCK THREAD	EACH	4.00	4.25	4.50	5.00	---	---	---



PARTS OF MUELLER WATER TAPPING MACHINE.

EXTRA PARTS OF RATCHET HANDLE.

No.		
1.	Handle	\$ 3.50
2.	Handle Plate	.85
3.	Ratchet Wheel	1.75
4.	Ratchet Dog	1.50
5.	Bolt and Nut	.40
6.	Spring Pin	.40
7.	Spring	.25
8.	Stud	.35
9.	Dowel Pins (2)	.25
	Ratchet Handle complete	\$ 9.25

EXTRA PARTS OF BORING BAR.

10.	Boring Bar	\$13.50
11.	Case-hardened Hexagon Nut	.25
12.	Collars (2)	1.50
13.	Set Screws for Collars (4)	.40
14.	Thumb Screw	.35
	Steel Boring Bar complete	\$16.00
15.	Feed Yoke	1.25
16.	Brass Stuffing Nut	3.50
17.	Feed Nut	1.75

EXTRA PARTS OF BRASS CAPS.

18.	Brass Cap	\$10.25
19.	Steel Handles (2)	1.75
20.	Washer	.25
	Brass Cap complete	\$12.25

EXTRA PARTS OF IRON CYLINDER.

21.	Cylinder	\$ 2.50
22.	Relief Valve	.60
23.	Dowel Pins (2)	.20
	Iron Cylinder complete	\$ 3.30
24.	Chain Yoke	2.00
	EXTRA PARTS OF CHAIN HOOKS.	
25.	Hooks (2)	\$ 1.50
26.	Nuts (2)	.75
27.	Washers (2)	.25
	Chain Hooks complete	\$ 2.50
28.	Wrench	.60

EXTRA PARTS OF BRASS VALVES.

29.	Valve Body	\$18.75
30.	Balance Valve	1.25
31.	Stem Hand Wheel	.35
32.	Stem Packing Nut	1.00
33.	Stem	1.75
34.	Gate Arm	1.75
35.	Gate	1.75
36.	Brass Gate Washer	.25
37.	Rubber Gate Washer	.40
38.	Packing Washer for Stem	.20
39.	Screw Pin for Hand Wheel	.10
40.	Screw Holding Arm to Stem	.10
41.	Screw Holding Gate to Arm	.10
42.	Screw Holding Washer to Gate	.10

43.	Washer under Screw No. 41	\$0.05
44.	Screw for Balance Valve	.10
	Brass Valve complete	\$28.00
45.	4½-inch Rubber Gasket	.25
46.	7½-inch Rubber Gasket	1.00
47.	Chain for pipe	2 to 12 in. incl. 2.25 2 to 16 in. incl. 2.75 2 to 36 in. incl. 3.25
48.	Combined Drills and Taps:	
	1/8 in.	3.75
	1/4 in.	4.00
	3/8 in.	4.50
	1/2 in.	5.50
	3/4 in.	6.50
49.	Screw Plugs:	
	1/8, 1/4, 3/8, 1/2, and 1 inch, each	.60
50.	Hexagonal Plugs:	
	1/8, 1/4, 3/8, 1/2, and 1 inch, each	.60
51.	Malleable Iron Saddles:	
	2, 3, 4, 6, 8, 10, 12, 14, 15, 16, 18, 20, 24, 30, and 36 inch, each	1.00

EXTRA PARTS OF POWER CLEVIS.

52.	Hooks (2)	\$ 1.00
53.	Feed Screw	1.75
54.	Hand Wheel	.60
55.	Yoke	1.50
56.	Screw Pin for Hand Wheel	.15
	Power Clevis complete	\$ 5.00

In order to avoid mistake or delay when ordering *Ratchet Wheels*, state *Old* or *New Style*.

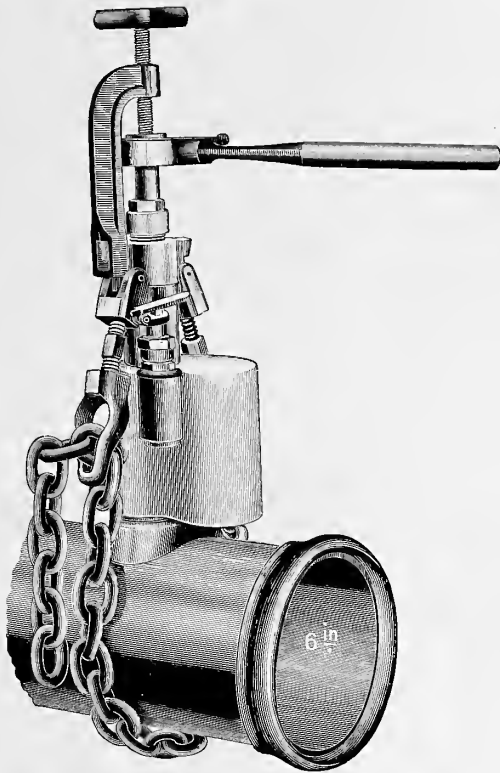


FIG. 1800. PAYNE'S ECLIPSE WATER TAPPING MACHINE.

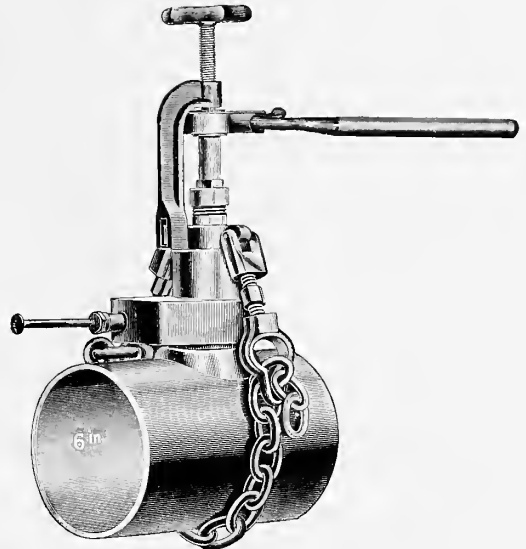


FIG. 1801. PAYNE'S IDEAL DRY TAPPING MACHINE.

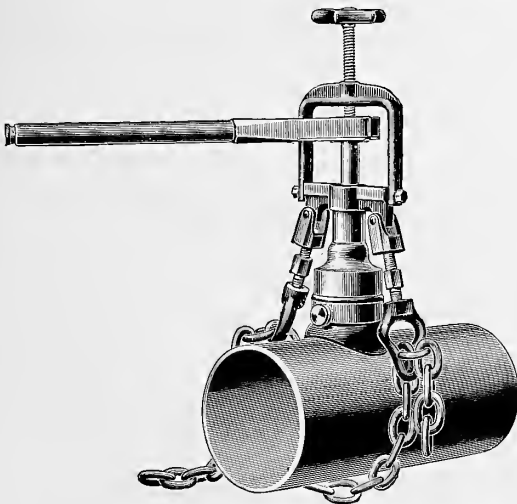


FIG. 1802. PAYNE'S DAISY DRY TAPPING MACHINE.

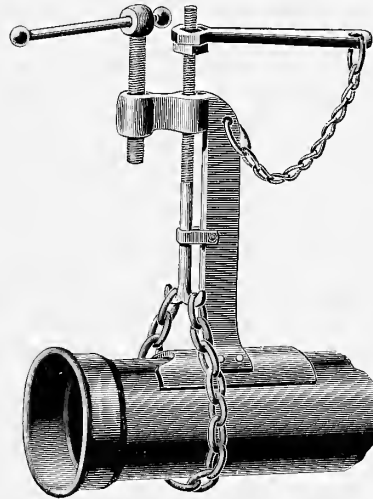


FIG. 1803. CLOW'S IMPROVED CROW.

PAYNE'S TAPPING MACHINES.

FIG. 1800. COMPLETE, WITH 1 EACH $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, AND 1 INCH TAPS AND 4 SADDLES, ANY SIZE	100.00
FIG. 1801. COMPLETE, WITH 1 SADDLE, CHAIN, FEEDER, AND RATCHET	35.00
FIG. 1802. COMPLETE, WITH 1 SADDLE, CHAIN, FEEDER, AND RATCHET	20.00
FIG. 1803. COMPLETE, WITH CHAIN FOR PIPE FROM 4 TO 12 INCHES	12.00

Price of Extra Tools: $\frac{1}{4}$ -inch Tap, \$3.00; $\frac{3}{8}$ -inch Tap, \$3.00; $\frac{1}{2}$ -inch Tap, \$4.00; $\frac{5}{8}$ and $\frac{3}{4}$ inch Taps, \$4.50; 1 inch Tap, \$5.00; $1\frac{1}{4}$ -inch Tap, \$6.00; $1\frac{1}{2}$ -inch Tap, \$7.00; 2-inch Tap, \$8.00. Mandrels, \$1.00; Saddles, \$1.00; Chain, \$1.00.

WATER WORKS TOOLS.

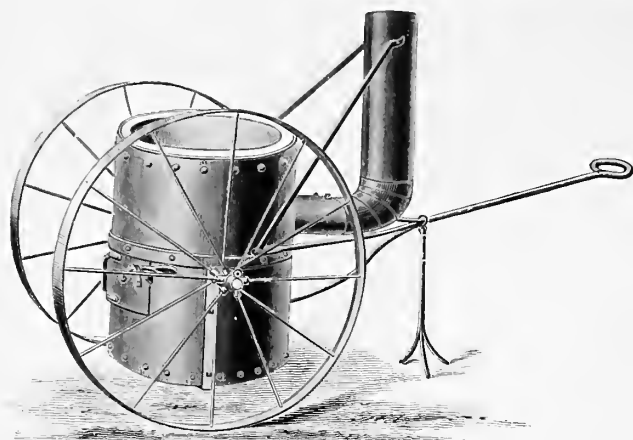


FIG. 1804. CLOW'S MELTING FURNACE ON WHEELS



FIG. 1805. CLOW'S MELTING FURNACE ON LEGS.

MELTING FURNACES.— Figs. 1804 and 1805.

NUMBER		1	2
ON LEGS	EACH	35.00	30.00
ON WHEELS	EACH	50.00	45.00

The No. 1 Furnaces are the standard size, and can be used on the largest work, while the No. 2 are designed for lighter service.

Having a large demand for a good Melting Furnace, we have designed and are now manufacturing the above patterns, and believe them to be the most perfect Melting Furnaces ever made. They are strictly first-class in every particular, and very strong in all parts. The smoke-pipe is arranged to give the best possible draft. They can be taken from one place to another without drawing the fire, and with the melted lead in the pot, a flange being cast on the inside rim of pot, preventing the lead from wasting. They will pay for themselves in time saved.

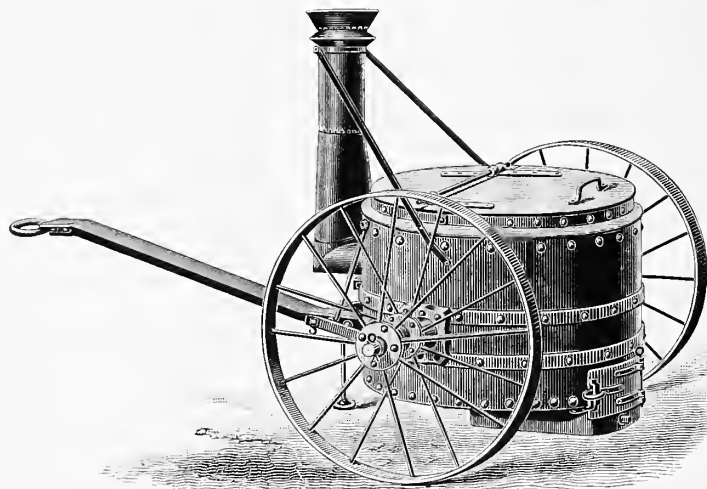


FIG. 1806. TAR MELTING FURNACE.

TAR MELTING FURNACES.— Fig. 1806.

PRICE, COMPLETE	135.00
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This is designed to meet a long-felt want for a thoroughly reliable Tar Melting Furnace. Like our Lead Melting Furnaces, it is constructed of the best material, and gives excellent satisfaction.



FIG. 1807. STEEL LADLE.



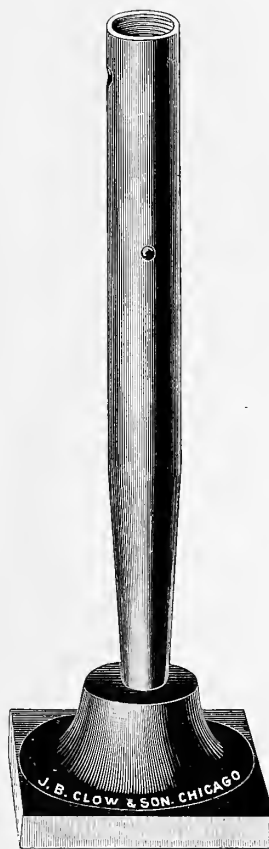
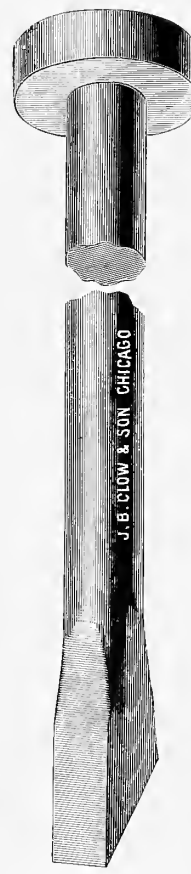
FIG. 1808. POURING POT.

STEEL LADLES.—Fig. 1807.

SIZE	INCHES	8	10	12
EACH		5.00	6.50	7.50

POURING POTS.—Fig. 1808.

EACH	2.50
------	------

FIG. 1809. STEEL TAMPER,
FOR TAMPING UNDER PIPE.FIG. 1810. ROUND TAMPER,
IRON HANDLE.FIG. 1811. SQUARE TAMPER,
IRON HANDLE.FIG. 1812. ROUND-HEAD
CROWBAR.

TAMPERS AND CROWBARS.—Figs. 1809, 1810, 1811, and 1812.

FIGURE	1809	1810	1811	1812
EACH	3.50	2.50	2.50	4.00



FIG. 1813. YARNING IRON.



FIG. 1814. CALKING IRON.

YARNING IRONS.—Fig. 1813.

NUMBER 1.	$\frac{1}{8}$ -INCH THICK AT POINT	-----	EACH	.75
NUMBER 2.	$\frac{1}{16}$ -INCH THICK AT POINT	-----	EACH	.80

CALKING IRONS.—Fig. 1814.

NUMBER	-----	1	2	3	4	5	6	7	8
SIZE	----- INCHES	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	1
EACH	-----	.60	.60	.60	.65	.65	.70	.70	.75



FIG. 1815. COLD CHISEL.

COLD CHISELS.—Fig. 1815.

NUMBER	-----	1	2	3	4	5	6
SIZE	----- INCHES	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
EACH	-----	.50	.50	.55	.60	.65	.70



FIG. 1816. PIPE-CUTTING CHISEL.



FIG. 1817. DIAMOND CHISEL, TRIANGULAR POINT.



FIG. 1818. DIAMOND CHISEL.



FIG. 1819. DIAMOND CHISEL, HALF-ROUND.



FIG. 1820. BRICK CHISEL, 18 INCHES LONG.



FIG. 1821. WALL CHISEL, 30 INCHES LONG.



FIG. 1822. WALL CHISEL, 30 INCHES LONG, DIAMOND POINT.

CHISELS.—Figs. 1816, 1817, 1818, 1819, 1820, 1821, and 1822.

FIGURE	-----	1816	1817	1818	1819	1820	1821	1822
EACH	-----	1.25	.75	.75	.60	1.75	3.00	3.00

Our Water Works Tools are hand-made, from the highest grade steel. Each tool is stamped with our name, and warranted.



FIG. 1823. STEEL WEDGE.

STEEL WEDGES.— Fig. 1823.

NUMBER 1. 1½ INCHES SQUARE	2.00
NUMBER 2. 2 INCHES SQUARE	4.00

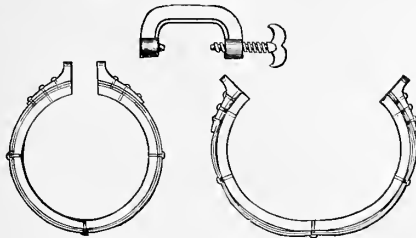


FIG. 1824. PATENT PIPE JOINTERS.

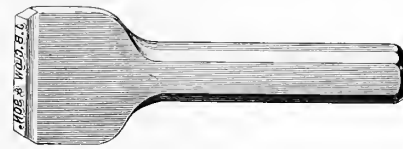


FIG. 1825. STEEL BRANDING STAMP.

PATENT PIPE JOINTERS.— Fig. 1824.

SIZE	INCHES	2	3	4	6	8	10	12	16	20	24	30	36	48
PRICE	EACH	3.00	4.00	4.50	6.00	7.50	10.00	11.00	14.00	17.50	22.50	27.50	33.00	40.00

Fig. 1825. Price according to number of letters, from \$3.00 to \$4.00 each.

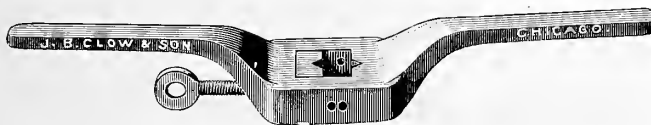


FIG. 1826. EXTENSION WRENCH, FOR SCREWING TAPS IN CAST-IRON PIPE.



FIG. 1827. IRON SPIRIT LEVEL.

EXTENSION WRENCHES AND IRON SPIRIT LEVELS.— Figs. 1826 and 1827.

FIGURE		1826	1827
PRICE	EACH	9.00	3.50



FIG. 1828. PICK.

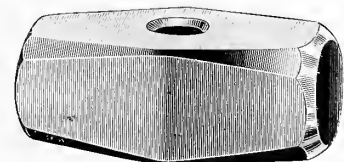


FIG. 1829. MAUL.

PICKS AND MAULS.— Figs. 1828 and 1829.

WEIGHT	POUNDS	4	5	6	7	8	9	10	12
FIG. 1828	EACH	.55	.60	.65	.75	.80	.85	---	---
FIG. 1829	EACH	---	---	1.25	---	1.50	---	2.00	2.50

Handles extra, best quality, each, 30 cents.



FIG. 1830.

SPECIAL CALKING HAMMERS.— Fig. 1830.

WEIGHT	POUNDS	1½	2½	3	3½
PRICE	EACH	.75	.85	.95	1.00

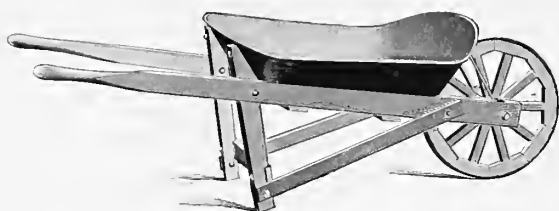


FIG. 1831. STEEL TRAY DIRT BARROW.

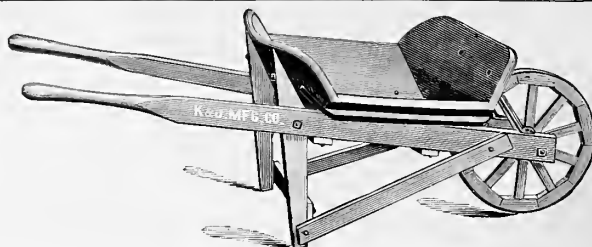


FIG. 1832. JACOBS' WOODEN BARROW.

BARROWS.—Figs. 1831 and 1832.

FIGURE	1831	1832
EACH	4.50	2.00



FIG. 1833. TUBULAR STEEL BARROW.

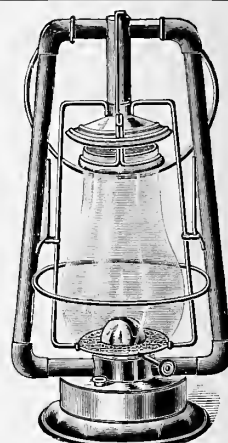
BARROWS.—Fig. 1833.

FIG. 1834. LAMP.

COAL BARROW; CAPACITY 350 POUNDS COAL	EACH	20.00
DIRT BARROW; CAPACITY 3 CUBIC FEET	EACH	10.75
COKE BARROW; CAPACITY 3½ BUSHELS	EACH	18.50

LAMPS.—Fig. 1834.

FIGURE	1834
WITH PLAIN GLASS GLOBE	PER DOZEN 9.00
WITH RUBY RED GLASS GLOBE	PER DOZEN 12.00



FIG. 1835. SQUARE-POINT RAILROAD SHOVEL.



FIG. 1836. ROUND-POINT DITCH SHOVEL.



FIG. 1837. ROUND-POINT LONG HANDLE DITCH SHOVEL.

SHOVELS.—Figs. 1835, 1836, and 1837.

FIGURE	1835	1836	1837
BLACK	PER DOZEN 10.25	10.50	10.25
POLISHED	PER DOZEN 11.00	11.25	11.00

PLUMBERS' TOOLS.



FIG. 1838. SHAVE HOOK, WITH
ADJUSTABLE BLADE.
Each50



FIG. 1839. TRIANGULAR SHAVE HOOK.
Each30



FIG. 1840. OVAL SHAVE HOOK.
Each30



FIG. 1841. COLD CHISEL.
Each35



FIG. 1842. CALKING CHISEL.
Each40



FIG. 1843. RIGHT OR LEFT HAND
CALKING CHISEL.
Each50



FIG. 1844. STUB CALKING CHISEL.
Each50



FIG. 1845. TAP BORER.
Each45



FIG. 1846. HAMMER.
Each 1.00



FIG. 1847. SPRING YARNING IRON.
Each85



FIG. 1848. BENDING PIN.
Each30



FIG. 1849. ROUND IRON.
Number 1 2 3
Each70 .90 1.10



FIG. 1850. COMPASS SAW.
Each40



FIG. 1851. GRIFFIN'S IMPROVED
HACK SAW.
Size inches 10 12
Each 2.00 2.50

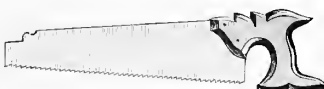


FIG. 1852. PLUMBER'S SAW.
Size inches 12 14 16
Single Edge each .60 .75 .85
Double Edge each .75 .85 .95



FIG. 1853. SCREW DRIVER.
Size inches 6 7
Each30 .35



FIG. 1854. IMPROVED LEAD PIPE
BENDER.
Size inches 1 1 1/4 1 1/2 2
Each 1.50 1.50 1.50 2.00



FIG. 1855. BOXWOOD RULE.
Each30

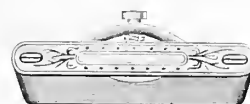


FIG. 1856. IRON POCKET SPIRIT LEVEL.
Each25



FIG. 1857. FILE.
Size inches 10 12 14
Half-round each .40 .60 .80
Flat each .40 .60 .80



FIG. 1858. RASP.
Size inches 10 12 14
Each40 .40 .50



FIG. 1859. CUTTING PLIERS.
Each 1.00



FIG. 1860. BASIN WRENCH.
Each 1.00



FIG. 1861. GOUGE.
Each75



FIG. 1862. TINNER'S SNIPS.
Cuts inches 2 1/2 3 4 4 1/2
Each 1.40 1.50 2.50 3.00



FIG. 1863. CHISEL.
Each75



FIG. 1864. FLOOR CHISEL.
Each 2.50

PLUMBERS' TOOLS.



FIG. 1865. CHIPPING KNIFE.

Size - - - - - inches 4 1/2 5
Each - - - - - .50 .50



FIG. 1866. DUSTER.

Each - - - - - .60

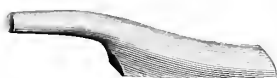


FIG. 1867. BOXWOOD DRESSER.

Each - - - - - .85



FIG. 1868. SIDE EDGE.

Each - - - - - .75



FIG. 1869. TURN PIN.

Number - - - - - 1 2 3
Each - - - - - .25 .25 .25



FIG. 1870. TWO-FOOT IRON SQUARE.

Each - - - - - 1.25

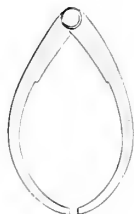


FIG. 1871. CALIPERS.

Size, inches 2 1/2 3 4 5 6
Each - - - .25 .25 .30 .35 .40



FIG. 1872. DRIFT PLUG.

1 or 1 1/4 inch - - - - - each .20



FIG. 1873. BOSSING STICK.

Each - - - - - .90



FIG. 1874. BLOWPIPE.

Each - - - - - .50



FIG. 1875. GREASE BOX.

Each - - - - - 1.25



FIG. 1876. SOIL CUP.

Each - - - - - .40



FIG. 1877. COMPASS.

Each - - - - - .45

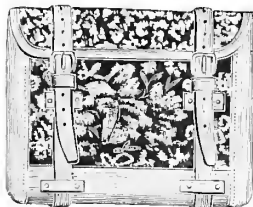


FIG. 1878. TOOL BAG.

Plain - - - - - each 4.00
Leather Bottom - - - - - each 5.00
Leather Bottom and Sides - - - - - each 6.00



FIG. 1879. FLAT SOIL BRUSH.

Each - - - - - .10



FIG. 1880. HATCHET COPPER BOLT.

Per pound - - - - - .40



FIG. 1881. POINTED COPPER BOLT.

Per pound - - - - - .40



FIG. 1882. LADLE.

Size - - - 2 1/2 3 3 1/2 4 5 6
Each - .30 .40 .50 .55 .85 .90



FIG. 1883. WIPING CLOTH.

Moleskin - - - - - per dozen 3.00



FIG. 1884. CANDLESTICK.

Each - - - - - .25

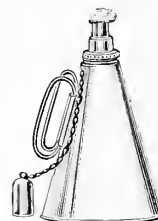


FIG. 1885. TORCH.

Tin - - - - - each 1.00
Brass - - - - - each 1.25
Galloway Patent - - - - - each 1.50

PLUMBERS' TOOLS.



FIG. 1886. TAPE MEASURE.

50-foot Cotton Tape, Ass Skin
Case - - - - - each .60
50-foot Linen Line, Chesterman
Leather Case - - - - - each 2.50
50-foot Steel Line, Chesterman
Leather Case - - - - - each 8.00

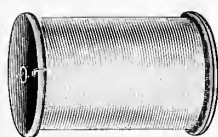


FIG. 1887. COPPER WIRE.

Per pound - - - - - .40

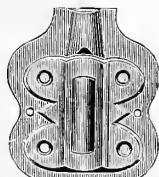


FIG. 1888. PLUMB BOB.

Small size - - - - - each 1.20
Large size - - - - - each 2.00

FIG. 1889.
PLUMBER'S FRIEND FORCE CUP.

Each - - - - - 2.00

FIG. 1890. TACK MOULD,
PLAIN PATTERN.

Single - - - - - each 2.50
Double - - - - - each 3.50



FIG. 1891. SOLDER POT.

Size - inches	5	6	6½	8
Each - - -	.40	.60	.70	.90
Size - inches	9	10½	13½	
Each - - -	1.10	1.65	2.75	



FIG. 1892. LOOKING-GLASS.

Each - - - - - .40



FIG. 1893. RUBBER FORCE CUP.

Number - - -	1	2	3
Each - - -	.50	.75	1.00

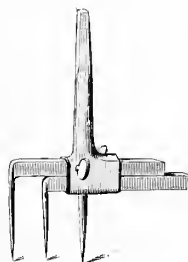
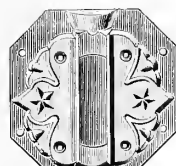


FIG. 1894. WASHER CUTTER.

Each - - - - - 1.25

FIG. 1895. TACK MOULD,
STAR PATTERN.

Single - - - - - each 3.00
Double - - - - - each 4.00



FIG. 1896. PATENT RATCHET BRACE.

Each - - - - - 2.25

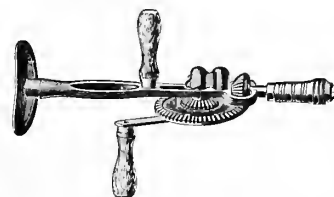


FIG. 1897. BREAST DRILL.

Each - - - - - 3.00



FIG. 1898. CORNER BRACE.

Size - inches	8	10
Each - - -	2.50	3.00



FIG. 1899. PLUMBER'S LAMP.

Each - - - - - .50

FIG. 1900. STRAP SOLDER MOULD,
HALF-ROUND BAR.

Each - - - - - 3.00

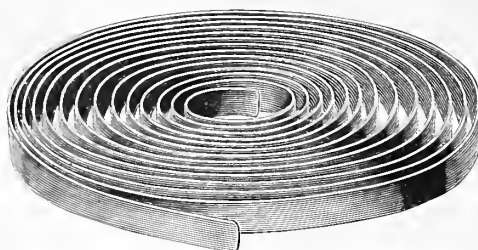


FIG. 1901. SEWER ROD.

SEWER RODS.—Fig. 1901.

60 TO 75 FEET

EACH

6.50



FIG. 1902. PLUMBER'S PREPARED SOIL.

PLUMBER'S PREPARED SOIL.—Fig. 1902.

FIGURE

1902

PINT CANS

EACH

.50

QUART CANS

EACH

.75



FIG. 1903. PUTTY.

PUTTY.—Fig. 1903.

BLADDERS HOLD FROM 10 TO 20 POUNDS

PER POUND

.04



FIG. 1904. GAS FITTER'S CEMENT.

GAS FITTER'S CEMENT.—Fig. 1904.

FIGURE

1904

CEMENT

PER POUND

.20



FIG. 1905. NAME PLATE.



FIG. 1906. ROUND NAME PLATE.

NAME PLATES.—Figs. 1905 and 1906.

FIG. 1905. GERMAN SILVER

PER DOZEN

5.00

FIG. 1905. CAST BRASS, SPECIAL

PER DOZEN

4.00

FIG. 1906. GERMAN SILVER, DIAMETER 1½ INCHES

PER DOZEN

4.00

We make a large variety of Name Plates, both in Brass and German Silver. Special Designs made to order.

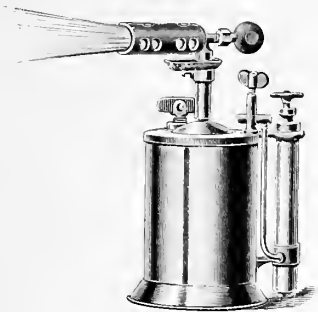


FIG. 1908. GASOLINE TORCH.

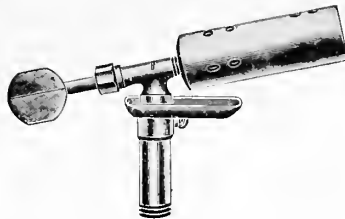


FIG. 1909. BURNER, COMPLETE.



FIG. 1910. AIR PUMP.

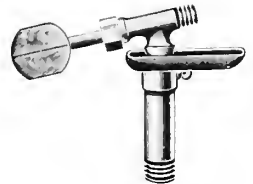
FIG. 1911. BURNER
WITHOUT HEAD.**GASOLINE TORCHES AND PARTS.**

FIGURE	1908	1909	1910	1911
EACH	6.00	2.25	1.50	1.50



FIG. 1912. AIR VALVE.



FIG. 1913. BURNER HEAD.



FIG. 1914. DRIP CUP.



FIG. 1915. NEEDLE SCREW.



FIG. 1916. PLUG.

PARTS FOR GASOLINE TORCHES.

FIGURE	1912	1913	1914	1915	1916
EACH	.75	.75	.35	.25	.20



FIG. 1917. THAWING STEAMER.

THAWING STEAMERS.

TO GO INTO PLUMBER'S FURNACE INSTEAD OF SOLDER POT.

EACH, NET	5.00
HOSE EXTRA	.09
PER FOOT	

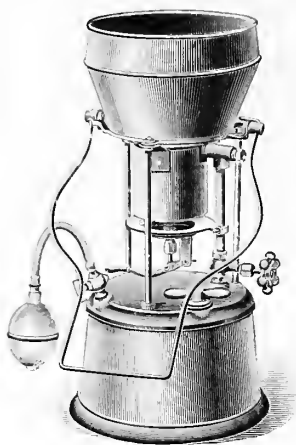


FIG. 1918.

JEWEL GASOLINE FURNACES.—Fig. 1918.

EACH.	6.00
---------------	------



FIG. 1919. SHIELD.



FIG. 1920. HOOD.

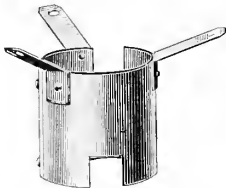


FIG. 1921. COIL CAGE.

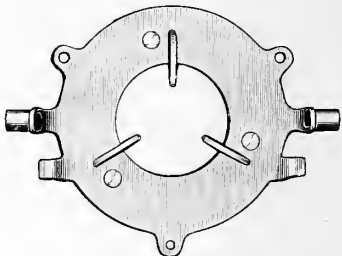


FIG. 1922. TOP PLATE.



FIG. 1923. COIL.

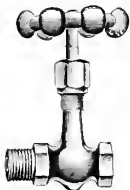


FIG. 1924. VALVE.



FIG. 1925. BURNER



FIG. 1926. PLUG.

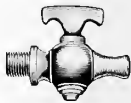


FIG. 1927. AIR VALVE.



FIG. 1928. REGULATING LEVER.



FIG. 1929. NEEDLE FEED.



FIG. 1930. RUBBER BULB.

PARTS OF JEWEL GASOLINE FURNACE.

FIGURE	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
EACH. . . . .	.50	.50	.50	1.00	.75	.75	.75	.35	.25	.35	.35	.50



FIG. 1931.
PLUMBER'S FORCE PUMP.

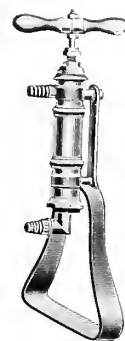


FIG. 1932.
PLUMBER'S FORCE PUMP, WITH STIRRUP.

PLUMBER'S FORCE PUMPS.—Figs. 1931 and 1932.

FIGURE	1931	1932
EACH	12.00	15.00

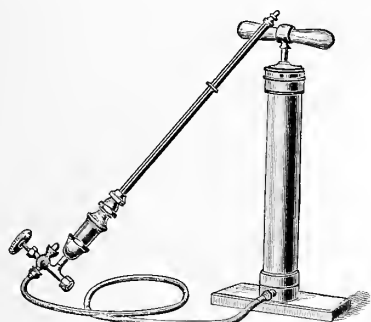


FIG. 1933.
GAS PROVING PUMP, WITH MERCURY GAGE.

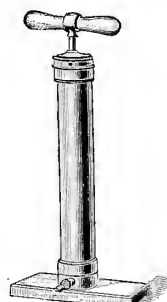


FIG. 1934.
AIR TEST PUMP.

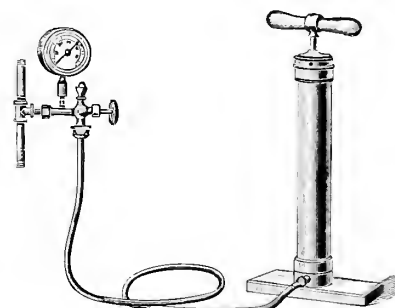


FIG. 1935.
GAS PROVING PUMP, WITH AIR GAGE.

GAS PROVING PUMPS.—Figs. 1933, 1934, and 1935.

FIG. 1933. COMPLETE	EACH	25.00
FIG. 1933. MERCURY GAGE, WITH COCK AND ETHER CUP	EACH	10.00
FIG. 1934. PUMP ONLY	EACH	13.00
FIG. 1935. COMPLETE	EACH	30.00



FIG. 1936.
GAS MAIN CLEARING PUMP.

GAS MAIN CLEARING PUMPS.—Fig. 1936.

COMPLETE	EACH	30.00
----------	------	-------

This Pump is made to meet every requirement of the trade, both as to convenience and efficiency, and is by all means the best method of clearing Waste and Service Pipes.

The Cylinder is of Copper, with Pump and Valves of Brass, all substantially constructed and tested at 100 pounds pressure.

TELEGRAPH CIPHER.

NUMBER OF PIECES OR FIGURE REQUIRED.

NUMBER OF ORDER.

WEIGHT OF CAST-IRON PIPE PER FOOT.

1 Mab.	34 Mend.	67 Moist.	100 Myrtle.
2 Mac.	35 Mense.	68 Mold.	150 Nab.
3 Mad.	36 Ment.	69 Mole.	200 Nice.
4 Mag.	37 Mere.	70 Monde.	250 Nut.
5 Mail.	38 Merl.	71 Monk.	300 Obey.
6 Maid.	39 Mesh.	72 Mont.	350 Old.
7 Main.	40 Met.	73 Mop.	400 Pad.
8 Make.	41 Mew.	74 Moral.	450 Pin.
9 Man.	42 Mice.	75 More.	500 Quad.
10 Manks.	43 Mid.	76 Morn.	550 Quote.
11 Manor.	44 Midge.	77 Morris.	600 Rapid.
12 Many.	45 Midst.	78 Morse.	650 Row.
13 Mar.	46 Might.	79 Most.	700 Sad.
14 March.	47 Mild.	80 Mot.	750 Scot.
15 Mars.	48 Mile.	81 Moth.	800 Tap.
16 Marks.	49 Milk.	82 Mould.	850 Try.
17 Marl.	50 Mince.	83 Mount.	900 Ugly.
18 Marsh.	51 Mingle.	84 Mouth.	950 Urn.
19 Mart.	52 Mind.	85 Move.	1000 Vast.
20 Mask.	53 Minor.	86 Mow.	1100 Vase.
21 Mast.	54 Mint.	87 Much.	1200 Wake.
22 Mat.	55 Mire.	88 Mud.	1300 Walk.
23 Match.	56 Mirk.	89 Muff.	1400 Ward.
24 Math.	57 Mirth.	90 Mufti.	1500 Wash.
25 Mate.	58 Miss.	91 Mulet.	1600 Watch.
26 Maul.	59 Mite.	92 Mull.	1700 Wealth.
27 May.	60 Mix.	93 Mump.	1800 Wear.
28 Maze.	61 Mizzen.	94 Mural.	1900 Yard.
29 Mead.	62 Moat.	95 Muse.	2000 Yarn.
30 Meal.	63 Mob.	96 Mush.	3000 Yoke.
31 Mean.	64 Mock.	97 Musk.	4000 Youth.
32 Meat.	65 Mode.	98 Mute.	5000 Young.
33 Melt.	66 Moil.	99 Mystic.	

CAST-IRON PIPE.

Size, Inches.	Tarred Water Pipe.	Untarred Gas Pipe.	Tarred Culvert Pipe.
2	Arkansas	Akron.	
3	California	Baldwin.	
4	Dakota	Dover.	
6	Delaware	Easton.	
8	Florida	Fremont.	
10	Georgia	Geneva.	
12	Illinois	Hartford	Hammond.
14	Indiana	Keystone	Kankakee.
16	Iowa	Lausing	Lacon.
18	Maryland	Marion	Marshall.
20	Michigan	Norfolk	Naples.
24	Montana	Oakland	Oakley.
30	Oregon	Pontiac	Pekin.
36	Virginia	Rutland	Ripley.
42	Wyoming	Seneca	Seward.
48	Wisconsin	Tucson	Topeka.
60	Utah	Ulster	Utopia.

NUMBER OF FEET.

100 Asia.	1500 Jersey.	8000 Russia.
200 Belgium.	2000 Kentucky.	9000 Spain.
300 Chili.	2500 Kansas.	10000 Texas.
400 Denmark.	3000 Liberia.	15000 Uruguay.
500 Egypt.	3500 Lapland.	20000 Valparaiso.
600 France.	4000 Maine.	25000 Washington.
700 Germany.	4500 Mexico.	30000 Xenia.
800 Holland.	5000 Nevada.	40000 Yorkville.
900 Ireland.	6000 Ohio.	50000 Zanesville.
1000 Japan.	7000 Peru.	

SIZE REQUIRED.

EITHER WEIGHT, DIAMETER, LENGTH, WIDTH, OR DEPTH.

$\frac{1}{16}$ Taylor.	$2\frac{1}{2}$ Tunis.	10 Wagner.	24 Warsaw.
$\frac{1}{8}$ Temple.	3 Turner.	11 Wallet.	30 Webster.
$\frac{1}{4}$ Tiffin.	$3\frac{1}{2}$ Undine.	12 Walker.	36 Weldon.
$\frac{3}{8}$ Toledo.	4 Union.	13 Wallow.	42 Weapon.
$\frac{1}{2}$ Toronto.	$4\frac{1}{2}$ Urbana.	14 Wallace.	48 Wesley.
$\frac{5}{8}$ Tower.	5 Valley.	15 Waltz.	54 Wedlock.
$\frac{3}{4}$ Tracy.	$5\frac{1}{2}$ Velvet.	16 Wander.	60 Welcome.
$\frac{7}{8}$ Tremont.	6 Venice.	17 Warble.	72 Whisper.
1 Trenton.	7 Vernon.	18 Walton.	84 Wicket.
$1\frac{1}{4}$ Trimble.	8 Wabash.	19 Warrior.	96 Wisdom.
$1\frac{1}{2}$ Trinidad.	9 Waiter.	20 Warren.	120 Wizard.
2 Trinitry.			

GAS, STEAM, AND WATER PIPE.

Size, Inches.	Black.	Galvanized.
$\frac{1}{8}$	Allegheny.	
$\frac{1}{4}$	Baltimore	Amazon.
$\frac{3}{8}$	Camden	Bay.
$\frac{1}{2}$	Detroit	Colorado
$\frac{3}{4}$	Erie	Danube
1	Fairmont	Elbe.
$1\frac{1}{4}$	Galena	Firth.
$1\frac{1}{2}$	Harrisburg	Ganges.
2	Ithaca	Hudson.
$2\frac{1}{2}$	Jamestown	Indus.
3	Kensington	Juniata.
$3\frac{1}{2}$	Lancaster	Kanawha.
4	Macon	Lake.
$4\frac{1}{2}$	Quincy	Miami.
5	Newark	Nile.
6	Oneida	Osage.
7	Paris	Po.
8	Reading	Rhine.
9	Salem	Seine.
10	Troy	Tweed.
12	Utica	Ural.
14	Verona.	
16	Wales.	

TELEGRAPH CIPHER.

DISCOUNT CIPHER.

To be used in quoting discounts. Also net prices on Cast-iron Pipe, when figures will represent dollars and cents per ton on Pipe, and cents per pound on specials.

Per Cent.	Per Cent.	Per Cent.
1 Alligator.	27 Eland.	55 Otter.
2 Asp.	27½ Fox.	56 Paca.
2¼ Alpaca.	28 Ferret.	57 Pig.
2½ Adder.	29 Fawn.	57½ Panther.
2¾ Ass.	30 Goat.	58 Porcupine.
3 Ant.	31 Gopher.	59 Puma.
4 Antelope.	32 Griffin.	60 Rat.
5 Ape.	33 Gazelle.	61 Raccoon.
6 Armadillo.	33½ Giraffe.	62 Reindeer.
7 Bat.	34 Gibbon.	62½ Rabbit.
7½ Bear.	35 Hare.	63 Seal.
8 Badger.	36 Hyena.	64 Steer.
9 Buck.	37 Horse.	65 Sheep.
10 Bison.	37½ Hog.	66 Scorpion.
11 Bull.	38 Hound.	67 Squirrel.
12 Calf.	39 Hippo.	67½ Snake.
12½ Camel.	40 Jackal.	68 Salamander.
13 Colt.	41 Jaguar.	69 Stag.
14 Cat.	42 Kangaroo.	70 Snail.
15 Chamois.	43 Leopard.	71 Tiger.
16 Chimpanzee.	44 Lynx.	72 Tapir.
17 Chameleon.	45 Lion.	72½ Turtle.
17½ Cony.	46 Lizard.	73 Tortoise.
18 Deer.	47 Lamb.	74 Viper.
19 Dromedary.	47½ Mole.	75 Wolf.
20 Dragon.	48 Marmot.	76 Wombat.
21 Doe.	49 Monkey.	77 Weasel.
22 Dormouse.	50 Mouse.	77½ Walrus.
23 Donkey.	51 Mastiff.	78 Worm.
24 Dog.	52 Mastodon.	79 Yak.
25 Elk.	53 Ox.	80 Zebra.
26 Elephant.	54 Opossum.	

Per Cent.	Per Cent.
Sable . . . and 2½.	Unicorn . . . and 7½ and 5.
Polecat . . . and 2½ and 5.	Spaniel . . . and 7½ and 10.
Cow . . . and 5.	Crocodile . . . and 10.
Gorilla . . . and 5 and 2½.	Frog . . . and 10 and 2½.
Mule . . . and 5 and 5.	Ermine . . . and 10 and 5.
Skunk . . . and 5 and 7½.	Buffalo . . . and 10 and 7½.
Coyote . . . and 5 and 10.	Moose . . . and 10 and 10.
Boar . . . and 7½.	Beaver . . . and 10 and 10 and 5.
Ibex . . . and 7½ and 2½.	Civet . . . and 10 and 10 and 10.

SHIPPING INSTRUCTIONS AND REQUESTS.

Above . . .	Ship by express.
Active . . .	Ship by steamer.
Adrift . . .	Ship by rail.
Abroad . . .	Ship what you have in stock and balance as soon as possible.
Agate . . .	Send tracer for shipment of ———.
Amber . . .	Wanted badly. When will you ship? Answer by wire.
Diamond . . .	Ship immediately.

INQUIRIES.

Acorn . . .	At what price can you furnish ———?
Alloy . . .	At what price can you buy ———?
Branch . . .	How soon and at what price can you furnish?
Coin . . .	Have you in stock and can you furnish?
Coiled . . .	How long will it take you to make?
College . . .	How many ——— have you in stock?
Comfort . . .	Can you buy for us from stock?
Convent . . .	When can you ship ———?
Emerald . . .	When will you ship our order?
First . . .	Have you shipped us any ———?
Farm . . .	Have you shipped order ——— inst.?
Flint . . .	When will you complete our order?
Garnet . . .	Can you furnish us promptly ———?
Granite . . .	If not already shipped, cancel ———.
Jasper . . .	What rate of freight can you obtain to ———?
Lava . . .	Shipping instructions by mail.
Marble . . .	If you have not shipped order—hold for instructions.

REPLIES.

Arrow . . .	Particulars go by mail.
Bayonet . . .	We are waiting for the ———. Shall we ship balance without them?
Bow . . .	We can furnish at ———.
Cannon . . .	——— advanced to ———.
Club . . .	Shall we enter order?
Dirk . . .	——— declined to ———.
Gun . . .	We have no order.
Harp . . .	None of the goods you order are in stock.
Harpoon . . .	Impossible for us to fill your order in time specified.
Hemp . . .	We have in stock and can furnish at ———.
Knife . . .	Referring to your order of the ———.
Lance . . .	We expect to ship on the ———.
Mortar . . .	Telegram canceling order was too late; order has been shipped.
Musket . . .	We have in stock and can ship at once.
Pistol . . .	We can ship part from stock and balance in ———.
Revolver . . .	Your message unintelligible; please repeat.
Rifle . . .	We have none in stock.
Saber . . .	Referring to your letter of ———.
Shell . . .	Must have answer by ———.
Shield . . .	You have not answered our letter of ———.
Shot . . .	We have already shipped.
Spear . . .	We can ship to-day.
Spur . . .	We can ship on ———.
Sword . . .	We can ship on receipt of order.

ROUTING OF SHIPMENTS.

Ash . . .	Ship via Chicago, Burlington & Quincy R. R.
Bamboo . . .	Ship via Chicago, Rock Island & Pacific Ry.
Beach . . .	Ship via Chicago & North-Western Ry.
Birch . . .	Ship via Chicago, Milwaukee & St. Paul Ry.
Boxwood . . .	Ship via Chicago & Alton R. R.
Butternut . . .	Ship via Atchison, Topeka & Santa Fé R. R.
Cedar . . .	Ship via Michigan Central R. R.
Cherry . . .	Ship via Lake Shore & Michigan Southern Ry.
Chestnut . . .	Ship via Wisconsin Central R. R.
Dogwood . . .	Ship via Illinois Central R. R.
Ebony . . .	Ship via Chicago Great Western Ry.
Elm . . .	Ship via Pittsburg, Fort Wayne & Chicago Ry.
Fir . . .	Ship via Chicago & Eastern Illinois R. R.
Hazel . . .	Ship via Chicago & Erie R. R.
Hemlock . . .	Ship via Cleveland, Cincinnati, Chicago & St. Louis Ry.
Hickory . . .	Ship via Chicago & Grand Trunk Ry.
Holly . . .	Ship via Great Northern Ry.
Mahogany . . .	Ship via Louisville, New Albany & Chicago Ry.
Maple . . .	Ship via Louisville & Nashville R. R.
Oak . . .	Ship via Northern Pacific R. R.
Pine . . .	Ship via Pittsburg, Cincinnati, Chicago & St. Louis Ry.
Poplar . . .	Ship via Union Pacific Ry.
Rattan . . .	Ship via Baltimore & Ohio R. R.
Redwood . . .	Ship via Goodrich Transportation Co.
Rosewood . . .	Ship via Graham & Morton Transportation Co.
Spruce . . .	Ship via Northern Michigan Transportation Co.
Sycamore . . .	Ship via Lake Michigan & Lake Superior Transportation Co.
Walnut . . .	Ship via Western Transit Co.
Yew . . .	Ship via Anchor Line.

DELIVERIES AND FREIGHT RATES.

Apple . . .	F. O. B. cars Chicago.
Apricot . . .	F. O. B. cars at your city.
Banana . . .	F. O. B. cars at mill.
Grape . . .	F. O. B. cars at mill with freight allowance, per 100 pounds, of ———.
Lemon . . .	The rate of freight per 100 pounds, car lots, from mill to your city, is ———.
Orange . . .	The rate of freight per 100 pounds, less than car lots, from mill to your city, is ———.
Peach . . .	The rate of freight per 100 pounds, car lots, from Chicago to your city, is ———.
Pear . . .	The rate of freight per 100 pounds, less than car lots, to your city, is ———.

Cellar Drainer, Climax	364	Cocks, Gas Fixture, Extra Heavy	125	Couplings for Urinal Tanks	325
Cement, Eureka, Portland, and Utica	399	Cocks, Gas Hose	124, 125	Couplings for Water Back	184
Cement Felting	399	Cocks, Gas, Independent	124	Couplings, Malleable, Offset Reducing	46
Cement, Gas Fitters'	436	Cocks, Gas Lamp Post	124, 125	Couplings, Malleable, R. and L.	45
Cesspool Plates	348	Cocks, Gas Pendant	123-125	Couplings, Plain, for Soldering	183
Cesspools	348	Cocks, Gas Pillar	124	Couplings, Siamese	170
Chain Stays	177	Cocks, Hopper	151, 167, 168	Couplings, with Recess	32
Chain Stays, with Jewel Cup	177	Cocks, Hydrant	138, 151	Couplings, Wrought-Iron	60
Chain Stays, with Soap Cup	177	Cocks, Iron	88	Couplings, Wrought-Iron, Extra Heavy,	
Chains and Snaps, Basin, Bath and Wash		Cocks, Kerosene	142	for Car Heating	31
Tray	178	Cocks, Lard Tank	80	Couplings, Wrought-Iron, Recessed	60
Chains, Safety and Jack	178	Cocks, Liquor	142	Covers, for Sewer or Catch-Basin	385
Chandelier Hooks and Loops, Malleable	46	Cocks, Meter	79	Covers, Manhole, for Valves and Sewers	386
Check Valves, Brass	69	Cocks, Pantry	152, 161	Crocery Laundry Tubs, White	331
Check Valves, Iron Body	82, 83-87	Cocks, Plain Stop	140	Crosby Pop Safety Valves	108
Check Valves, Iron Body, Jenkins Disc	84	Cocks, Racking	141	Crosby Water Relief Valves	108
Chicago Pattern Rough Stops	136	Cocks, Rain and Well Water	138	Crosses, Brass	61
Chime Whistles, Steam	105	Cocks, Rough Stop	134-137	Crosses, Cast-Iron	20
Chisels	430	Cocks, Self-closing	164, 166	Crosses, Cast-Iron, Drainage	64
Cigar Holder for Bath Room	196	Cocks, Shampoo	162	Crosses, Cast-Iron, Extra Heavy	30
Cigar Lighter	129	Cocks, Shower	140	Crosses, Cast-Iron, Flanged	31
Cipher, Telegraph	440, 441	Cocks, Sill	151	Crosses, Cast-Iron, Long Turn	29
Circle for Bolt Holes in Flanges	36	Cocks, Union Meter	79	Crosses, for Cast-Iron Pipe	8
Cistern Closets	308	Cocks, Urinal	158	Crosses, Malleable Iron	45
Clamps, Basin	178	Cocks, Urn	142	Cross Valves, Brass	68
Clamps, Closet and Hopper	188	Coil Stands, Laundry	39	Cross Valves, Iron Body	83
Clamps for Girders and Pipe Hangers	42	Cold Chisels	430	Cross Valves, Iron Body, Jenkins' Disc	84
Clamps, Hopper	321	Column, Pipe, Fittings for	32	Crowbar, Round Head	429
Clamps, Urinal	187	Columns, Reliance Safety Water	97	Crow, Improved, for Tapping Mains	427
Clamps for Water Pipe, Cast-Iron	60	Columns, Water Gate	96	Curtis' Pipe Cutting and Screwing Ma-	
Clarke's Damper Regulators	116	Comb and Brush Holder	196	chines	423
Classified Price List of Malleable Fittings	49	Combination Bath Cocks, Fuller	163	Curtis' Pressure Regulators	114
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Cleanouts and Traps for Sewer	364	Combined Hoppers and Traps, Earthen-		Curves and Elbows for Sewer Pipe	12
Closet Bowls, Earthenware	317-320	ware	319	Cushion, Water	375
Closet Connections, Ricketts	372	Combined Pipe Tap, Reamer, and Drill	413	Cut Lacing for Belts	395
Closet Ells, Tees and Flanges, Cast-Iron	65	Compression Basin Cocks	152	Cyclone Adjustable Lawn Sprinklers	174
Closet Flanges, Brass	65	Compression Double Bath Cocks	153	Cylinder Cocks	100
Closet Flush and Supply Pipes	188	Compression Gate Cocks	96	Cylinder Oil Pumps	104
Closet Pans	371	Compression Grease Cups	104	Cylinders, Pump	405
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Cocks, Ball	137	Copper Pantry Sinks, Square and Oval	371	Screwed	29
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Cocks, Cooler	141	Couplings, Brass	62	Drip Boxes for Cast-Iron Pipe	10
Cocks, Corporation Stop	131, 132	Couplings, Cast-Iron, Extra Heavy, for		Drip Boxes for Gas	385
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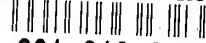
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